

ALL FEDERAL TRUNK ROADS

A RELIABLE PARTNER

Fully prepared with the on-board unit.
New log-on options for the toll.

TOLL COLLECT
service on the road

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TOLL NETWORK EXPANSION

A RELIABLE PARTNER

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Hanns-Karsten Kirchmann, Chairman of the Executive Board at Toll Collect GmbH.

Dear Sir/Madam, dear customer,

The law to expand the truck toll to all federal trunk roads starting 1 July 2018 came into force at the end of March 2017. The law will strengthen the user-financed road system and the policy of "infrastructure financed by mobility". Income from tolls contributes directly to the maintenance and expansion of the nation's road infrastructure.

The German Federal Ministry of Transport and Digital Infrastructure (BMVI) contracted Toll Collect at the end of June 2016 to lay the technical groundwork for this expansion. The toll network will be expanded by roughly 40,000 kilometres of federal trunk roads. To date a total of 15,000 kilometres of motorways and selected federal trunk roads are subject to toll.

OBU users are already fully prepared for the toll expansion.

A satellite-assisted toll system is the best choice for such a large network of toll roads as will exist in the future. In particular, automatic toll collection via the on-board unit (OBU) offers customers unequivocal advantages, since it permits the driver to change the route at any time, for example. This provides flexibility and saves time and money for transport and logistics companies on a daily basis. Another plus: the more than one million on-board units already installed can continue to be used after the expansion of the truck toll to all federal trunk roads.

But even for those without an OBU, Toll Collect will offer simple and practical log-on options for every type of customer in future: a new app, the reliable and simplified on-line log-on option and upgraded toll terminals will allow for quick and easy payment. Learn more about the toll expansion in this brochure. Learn more now and be fully prepared for 1 July 2018.

We'll keep you up to date in the coming months and let you know about the upcoming changes to the toll system and about the network expansion.



Sincerely, Hanns-Karsten Kirchmann

40,000
additional kilometres of roads in the federal trunk road toll system



MORE KILOMETRES

PROVEN QUALITY



For more information on toll log-on types, see pages 5 and 8 to 9.

According to legislation passed by the German government, the truck toll will apply on all federal trunk roads starting 1 July 2018. The toll network will be expanded by roughly 40,000 kilometres.

Toll Collect has been commissioned by the German government to prepare the truck toll system for the upcoming expansion of the country's toll network. The goal is to ensure that toll payment continues to function reliably and simply, as usual, for transport companies and drivers.

Upgrading the toll system and expanding the toll road network during ongoing operation is a major technical challenge – and that with a quality of 99.9 percent correct detection on traversed sections of road subject to tolls.

The expansion of the toll road network to two and a half times its former size will mean that many more companies will be using the toll system. At the same time, OBUs will have to be installed in many more vehicles. Many customers who previously used manual log-on for toll collection will decide to switch to the convenient automatic log-on. Therefore, it's worthwhile for companies to stay informed ahead of time and act as soon as possible.

The best choices for transport companies.

Customers already registered with Toll Collect and whose trucks are equipped with an on-board unit (OBU) require no further action for the toll network expansion and are fully prepared. Toll Collect is additionally working to make toll payment using manual log-on even simpler. An app will be available to customers for this from 2018. Customers will also still be able to use online log-on and upgraded toll terminals.



QUICK AND CONVENIENT

THE ON-BOARD UNIT

Transport companies and drivers can focus completely on their core business. OBUs are the all-in-one solution for everything concerning the toll. Automatic, simple and reliable.

For frequent drivers, OBUs are still the most convenient system for toll. As anyone who uses automatic log-on knows, the OBU saves time as well as money. In fact: it works reliably and to high quality standards. You can rely on the OBU, even as tolls expand to all federal trunk roads. Previously installed OBUs can continue to be used despite the significant increase in route sections.

Companies that will join the toll system starting in 2018 should decide in advance how they want to pay the toll charges. For companies that frequently use toll roads, it is best to pay tolls using automatic log-on via an OBU. These companies should register online via the Toll Collect customer portal in order to have an OBU installed.

Vehicles can then be registered online as well. Next, the company visits a service partner who will install the OBU. Toll Collect provides the unit free of charge and the company only pays for the installation.



The automatic log-on method offers many advantages: learn more about them now.



UPGRADED

AUTOMATIC LOG-ON

The OBU remains reliable – all installed devices can continue to be used after the expansion of the toll road network.

The inclusion of 40,000 kilometres of federal trunk roads presents new challenges for the toll system: compared to the motorways, federal trunk roads are subject to many changes more often and rapidly – construction, road closures, bans. This means that the data required for toll collection will change more often and at shorter notice than previously. That's why Toll Collect has upgraded automatic log-on via the on-board unit. Previously the OBUs transmitted the calculated toll amounts to the computing centre via mobile networks. In future, they will only transmit the trip data and the vehicle characteristics relevant for toll collection to the data centre. Only then will the toll be calculated there. Toll collection is therefore being switched from decentralised to centralised data processing.

The improved system: fully automatic.

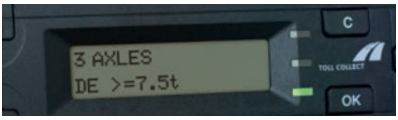
Starting in autumn 2017 the on-board units will be progressively transitioned to central toll collection. Neither the transport and logistics companies nor the drivers have to do anything at all.

The conversion will be apparent by a new screen on the display of the on-board unit. The common acoustic signal used to date when driving through a route section has been discontinued. In future the number of axles and the designation of the service (see graphic) will be displayed during the trip. These features will remain the same: the green LED indicates correct toll collection for the driver. Information on individual trips can be found on the customer portal.

Previous display screen



Future display screen





OUR GUARANTEE

COMPREHENSIVE DATA PROTECTION

Data protection and data security continue to have the right of way at Toll Collect.

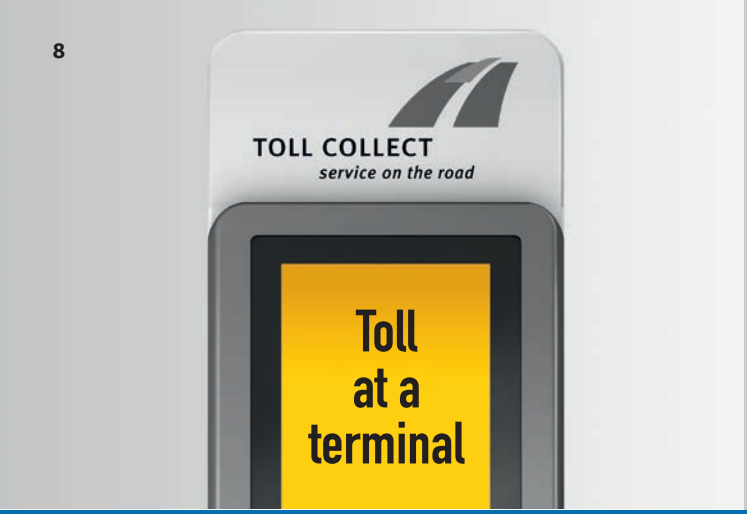
Through the German Federal Trunk Road Toll Act (BFStrMG), the German government has provided for comprehensive data protection since 2004. Under the German Federal Trunk Road Toll Act (BFStrMG), toll data must be processed and used exclusively for toll collection. Strict legal provisions ensure a very high level of data protection. The following apply: specified-purpose use, immediate deletion and prohibition of forwarding the data to third parties, including the provision that the data are secure against seizure. Even with the upgrade, the toll system remains a billing system!

Technical upgrades and data protection go hand in hand.

The German government has passed a law to expand the toll to around 40,000 kilometres of federal trunk roads. The truck toll system is being prepared for the new requirements. To ensure current levels of data protection and data security into the future, engineers and software engineers are working closely with data protection experts. Moreover, Toll Collect continues to rely on the principle of data avoidance and data economy in order to offer the highest level of data protection to everyone.

Toll Collect is implementing the industry standard for deletion according to data protection principles as a pilot project

With the cooperation of Toll Collect, the German Institute for Standardization (DIN) in 2011 took up the topic of “deletion in accordance with data protection principles” and in 2016, published the “Guideline on development of a deletion concept with derivation of deletion deadlines for personal data” as DIN 66 398. Toll Collect demonstrated its practical feasibility for this. The deletion concept realised by Toll Collect corresponds exactly to the DIN standard for deletion concepts in German industry.





TERMINAL, ONLINE AND NOW MOBILE

MANUAL LOG-ON

Faster, simpler, more convenient: Starting in 2018 the upgraded manual log-on method for toll payment will offer every customer the right type of access for their needs.

The upgraded manual log-on system will enable customers to log on online via the internet or at the toll terminal, just as before. What's new is the option to log-on via an app. These different log-on options have many advantages:

- the address and vehicle-specific route planning service with origin, destination and via points allows for custom routing planning and also includes non-toll roads.
- In future, every customer will be able to use every available log-on method without having to register with Toll Collect in advance.
- It will even be possible to log on a journey in advance online and cancel it on the road via the app.
- The option of using the app or online log-on will eliminate the need to go to toll terminals, which saves time.

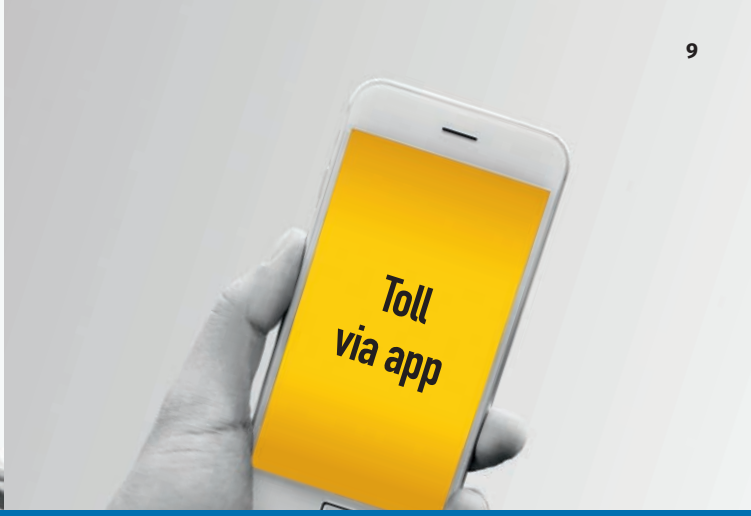
In future, log on and pay from anywhere with the convenient new app.

- The app that Toll Collect plans to launch with the expansion of the new toll road network provides the most flexible access to the manual log-on system. Customers will be able to log on easily from anywhere at any time, even directly from a smartphone or tablet in a parked vehicle.
- The app will be available free of charge from the usual operating system stores (Android, iOS, Windows Phone).

Log on online and pay directly.

Toll Collect already offers online log-on in addition to the app and toll terminals. Just like the app to be launched in 2018, in future online log-on can also be used from anywhere. The new online log-on is possible from any device (PC or tablet) with





ACCESS TOO

internet access, regardless of the type of customer.

Upgraded toll terminals in Germany and near the border will offer new services for customers.

To complement the app and online log-on, approximately 1,100 new toll terminals will be installed along the borders, primarily at large petrol stations, truck stops and motorway rest stops. They will replace the existing terminals, which are being gradually phased out. As with all the other manual log-on methods, point-to-point route planning that also includes non-toll roads will be possible at these terminals, a capability not currently offered with manual log-on. It will also be possible to enter via points.

An additional service will be offered for non-registered customers when manual log-on is upgraded: by creating an account online, non-registered as well as registered customers can store vehicles that are frequently logged on using manual log-on as well as frequently travelled routes.

As a result, log-on processes will become even more efficient and customers will save time. Customers will be able to manage and delete saved data at any time via the app or the online application.

A new payment method: the online substitute for cash.

Payment in cash will continue to be possible at up to 800 of the new toll terminals. In future, Toll Collect will also offer payment via paysafecard as a substitute for cash. The paysafecard is an existing prepaid electronic payment method which allows the customer to pay for log-on via PC, tablet or app. The paysafecard can be purchased for cash at presale locations (such as certain petrol stations, post offices or kiosks).

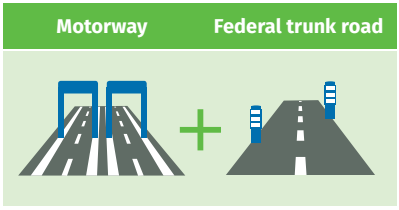


ENFORCEMENT ON FEDERAL TRUNK R

NEW ENFORCEMENT PILLARS

With the expansion of the truck toll to all federal trunk roads, it must also be possible to verify whether the fee has been properly paid on those roads as well.

To facilitate these checks, enforcement pillars will be used to supplement mobile enforcement by the German Federal Office for Goods Transport (BAG) on federal trunk roads. Enforcement gantries will not be erected on federal trunk roads. The enforcement pillars will feature similar technological capabilities as the enforcement gantries installed on motorways. But in contrast to the gantries, the enforcement pillars do not extend across all lanes but instead integrate better into the more rural landscape along the federal trunk roads. This will keep the environmental impact and the disruption of natural scenery to a minimum.



Instead of the enforcement gantries common on motorways, new enforcement pillars are being used on federal trunk roads.

Enforcement pillars are NOT speed cameras! The enforcement pillars check exclusively whether trucks of 7.5 tonnes or more gross vehicle weight have paid the proper fee. The enforcement pillars are coloured to differentiate them from speed camera pillars for speed control and are almost four metres in height.

Technology of the enforcement pillars and how they work

The enforcement pillars are stationary structures installed next to the lane; as a vehicle drives by, they check whether it is subject to pay the toll. Just as with the enforcement gantries, the German Federal Trunk Road Toll Act (BFStrMG) contains strict provisions for detection of vehicles at the enforcement pillars. Only data from trucks with a gross vehicle weight of 7.5 tonnes or more and that are suspected of non-payment or incorrect payment will be transmitted to a control centre, as is al-



OADS

ready the case today. All other data will be immediately deleted.

Construction of the enforcement pillars

The construction of over 600 enforcement pillars began in summer 2017. The locations were determined in cooperation with the client and it has been ensured that power and telecommunications connections are possible. The approval process was submitted to the relevant administrative offices. Any road closures will be reduced to a minimum thanks to new construction methods.



New enforcement pillars will be used on federal trunk roads in future.



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