

Electronic Toll Collection Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trends, and Growth Opportunity Analysis By Offering (Systems and Services); Technology (RFID, DSRC, ANPR, GNSS, and Others), and Application (Highways and Urban Zones)

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Abstracts

The Electronic Toll Collection System Market size is expected to reach US\$ 14.36 billion by 2030 from 5.54 billion in 2022, at an estimated CAGR of 12.6% from 2022 to 2030.

The North American Electronic Toll Collection System market is segmented into the US, Canada, and Mexico. The US is estimated to hold the largest Electronic Toll Collection System market share during the forecast period. The electronic toll collection system market in North America is segmented into the US, Canada, and Mexico. The US is one of the first countries to integrate solutions in electronic toll collection system market and boasts a significant network of electronic toll collection system (ETC) based systems across various tunnels, bridges, toll gateways, and expressways. Moreover, a collaborative effort of various inter-state agencies facilitated the implementation of an efficient ETC system across the region in the past decade. The significant freight transportation by road in the US compared to Canada and Mexico has also greatly influenced the adoption of ETC-based systems in the region.

According to the intelligent transportation systems joint program office, in September 2019, in Florida, all-ETC systems and hybrid toll plazas that support open road tolling experienced 73 to 45% fewer crashes than traditional toll plazas, respectively. An increasing number of government initiatives to achieve congestion-free transportation,

rising vehicle demand and production in North America, and growing adoption of the latest technological solutions—such as GPS and GNSS toll collection and tracking solutions. Further, in June 2022, TransCore was awarded a contract by the Thousand Islands Bridge Authority to develop, construct, and maintain next-generation toll collection systems. Its international bridge connected Wellesley Island with Hill Island in New York. TransCore replaced the previous technology used by TIBA. Thus, such instances are driving the North America electronic toll collection market.

The North American Free Trade Agreement (NAFTA) has ensured transportation and free trade within the US, Canada, and Mexico. The consistent maintenance and connectivity through roads have also raised the demand for robust toll collection across Mexico and Canada. Moreover, owing to the growing infrastructure demand and surge in the number of registered vehicles in the country, the demand for the ETC system will rise to handle road congestion efficiently. According to the Bureau of Transportation Statistics, the US total vehicle production, including passenger cars and commercial vehicles, increased from 8.8 million units in 2020 to 9.1 million units in 2021. The total domestic sales in the US, including passenger cars and commercial vehicles, increased from 11.5 million units in 2020 to 11.8 million units in 2021. Also, the trend of shifting from barrier-based ETC to open road tolling (ORT) or free-flow tolling has been increasingly growing in the road tolling industry, especially in North America, as the countries in the region are facing high traffic congestion at toll roads.

Based on technology, the Electronic Toll Collection System market is segmented into RFID, DSRC, GNSS, ANPR, and others. The RFID segment held the largest share in the Electronic Toll Collection System market in 2022. Radiofrequency identification RFID communication is also a mature technology for bi-directional data transfer between vehicles and roadsides. The main elements of RFID technology are the RFID tag (also called sticker-tag) with read/write capabilities and the RFID reader to be installed in lanes, segments, entrances, or exits, depending on the policy and tariff of the system. Thus, road network modifications must also be 'acted in the roadside infrastructure. RFID tags are known to be very cost-effective since the cost is at or below US\$ 1.05. In addition, RFID tags need no batteries. Also, RFID readers are very cost-effective. RFID technology offers many other applications, allows easier integration, and lowers capital investment and operational costs. The RFID Readers mounted at toll booths read the prepaid RFID tags fixed on vehicles' windshields, and automatically, the respective amount will be deducted. Therefore, the electronic toll collection system market is growing significantly with the increasing demand for RFID.

Based on offering, the Electronic Toll Collection System market is segmented into

systems and services. The systems segment held the largest share in the Electronic Toll Collection System market. The solutions in electronic toll collection system market constitutes hardware and software installed across different infrastructures over expressways, bridges, tunnels, onboard vehicles, and toll gateways. The hardware equipment includes lane hardware and toll station hardware. Lane hardware mainly consists of roadside antenna units, high-speed electric barriers, toll lane controllers, ETC lane signal lights, lane traffic lights, multifunction displays for toll collection, lane surveillance cameras, vehicle detectors, switches, computer networks, etc. Toll station hardware mainly contains switches, workstations, and ETC toll servers. ETC systems generally consist of hardware equipment such as transponders, antenna units, signal receivers, toll servers, optical sensors, in-road sensors, overhead cameras, roadside communication units, and tag readers. Two aspects of hardware equipment—one installed at the toll gateways and the other one onboard the vehicle—need to work cohesively for the ETC system to function efficiently. This equipment is responsible for gathering input data points for the software and algorithms to work upon to segregate relevant and nonrelevant data followed by identification and transaction related to toll. Moreover, based on the gathered data, the system can engage with necessary enforcement or alert the appropriate authority as per the system design. Also, the solutions provider ensures the availability of onboard vehicle tags at the local convenience store, registration of new user accounts, and related back-office support for the error-free functioning of the ETC system. The software helps with data acquisition and data communication. It also helps increase operational efficiencies for the toll collection system.

Conduent Business Services, LLC., Efkon GmbH, Kapsch TrafficCom AG, Thales, Toshiba Corporation, TransCore, FAAC S.p.A., Mitsubishi Heavy Industries, LTD., SICE, and P Square Solutions are among the key Electronic Toll Collection System Market players that are profiled in this market study.

The overall Electronic Toll Collection System Market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Electronic Toll Collection System Market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Electronic Toll Collection

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