

# **North America Electronic Toll Collection System Market Forecast to 2030 - Regional 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 North America electronic toll collection system market was valued at US\$ 1,956.36 million in 2022 and is expected to reach US\$ 5,417.54 million by 2030; it is estimated to grow at a CAGR of 13.6% from 2022 to 2030.

### **Long-Term Economic and Safety Benefits Drive North America Electronic Toll Collection System Market**

The toll collection centers are strategically placed toll plazas or collection units levied for tax collection, congestion management, maintenance fees for public infrastructure, and other revenue collection techniques. The volume of traffic flow plays a crucial role in determining the location of toll plazas and subsequently requires a robust and efficient toll collection solution. In the past few years, there has been a surge in congestion at toll plazas due to the increase in the number of vehicles passing through the tolls. Hence, the toll plazas lead to more fuel consumption for cars as well as increased vehicular pollution due to the congestion. Also, the delays generally caused at the toll gateways elevate the risk of vehicle accidents as well as safety, as many people try to compensate for the loss of time incurred by the congestion with fast driving. Due to such factors, an electronic toll collection is considered a competent alternate solution to the current manual toll for reducing the congestion at toll gateways and providing seamless transit transactions without the need for supervision.

The electronic toll collection system operates as an account-based system that automatically classifies, identifies, and subsequently charges the automobile owner per agency regulations, eliminating the need to stop at the toll plazas. The efficient deployment of electronic toll collection (ETC) systems has several benefits, such as

reduced congestion, congestion management, seamless transit transactions, vehicular pollution management, and intelligent transportation services at expressways. Thus, the long-term economic and safety benefits associated with electronic toll collection (ETC) systems are driving the market.

#### North America Electronic Toll Collection System Market Overview

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 electronic toll collection systems 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.

#### North America Electronic Toll Collection System Market Revenue and Forecast to 2030 (US\$ Million)

#### North America Electronic Toll Collection System Market Segmentation

The North America electronic toll collection system market is segmented based on offering, technology, application, and country. Based on offering, the North America electronic toll collection system market is bifurcated into systems and services. The systems segment held a larger market share in 2022.

In terms of technology, the North America electronic toll collection system market is segmented into RFID, DSRC, ANPR, GNSS, and others. The RFID segment held the largest market share in 2022.

By application, the North America electronic toll collection system market is bifurcated into highways and urban zones. The highways segment held a larger market share in 2022.

Based on country, the North America electronic toll collection system market is segmented into the US, Canada, and Mexico. The US dominated the North America electronic toll collection system market share in 2022.

Conduent Inc, Kapsch TrafficCom AG, Thales SA, Toshiba Infrastructure Systems and Solutions Corp, TransCore LP, Magnetic Autocontrol GmbH, The Revenue Markets Inc, Sociedad Iberica de Construcciones Electricas SA, P Square Solutions LLC, Verra Mobility Corp, Mitsubishi Heavy Industries Ltd., Cubic Transportation Systems Inc, and Q-Free ASA are some of the leading companies operating in the North America electronic toll collection system market.

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