

Electronic Toll Collection Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Automatic Vehicle Identification (AVI), Automated Vehicle Classification (AVC), Violation Enforcement System (VES), Toll Transaction Processing System), By Means of Collection (Prepaid, Postpaid), By Application (Roads, Bridges, Tunnels, Ferries), By Region & Competition, 2020-2030F

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Abstracts

Global Electronic Toll Collection Market was valued at USD 7.01 billion in 2024 and is expected to reach USD 11.23 Billion in 2030 and project robust growth in the forecast period with a CAGR of 8.01% through 2030. Electronic Toll Collection (ETC) is a sophisticated and automated system used in transportation infrastructure, particularly on highways, bridges, and tunnels, to facilitate the collection of tolls from vehicles passing through designated toll points. Unlike traditional toll collection methods that rely on manual transactions, ETC employs advanced technologies such as RFID (Radio-Frequency Identification), cameras, and sensors to identify vehicles and process payments seamlessly. In ETC, vehicles are equipped with transponders or tags that communicate with toll collection infrastructure as they pass through toll booths or lanes. The system automatically deducts the appropriate toll amount from the driver's prepaid account or bills it to the vehicle owner, eliminating the need for stopping and reducing traffic congestion. ETC not only enhances convenience for commuters but also contributes to efficient traffic management, revenue generation for infrastructure maintenance, and the reduction of environmental impact through decreased idling times.



Key Market Drivers

Technological Advancements and Integration

The explosive growth of the Global Electronic Toll Collection (ETC) Market is intricately linked to the rapid and relentless evolution of technology. This acceleration is propelled by groundbreaking advancements in sensor technologies, communication networks, and data processing capabilities, collectively ushering in a new era for toll collection systems. At the forefront of this technological revolution are sophisticated ETC systems that seamlessly incorporate cutting-edge technologies such as RFID (Radio-Frequency Identification) and GPS (Global Positioning System). These innovations are not merely add-ons but integral components, intricately woven into the fabric of toll collection infrastructure. Their integration marks a paradigm shift, enabling real-time data capture and analysis that forms the backbone of intelligent transportation systems. RFID, with its ability to wirelessly identify and track vehicles, and GPS, providing precise location data, synergistically contribute to the creation of a dynamic and responsive tolling ecosystem. The symbiosis of these technologies culminates in a transformative effect, where traditional toll collection methods pale in comparison. The ability to leverage these technological innovations positions ETC systems as trailblazers in the realm of automation and accuracy. The allure of real-time data analytics, coupled with the precision of RFID and GPS technologies, forms a potent combination that fundamentally reshapes the toll collection landscape. This amalgamation not only meets the demands of modern transportation challenges but sets a new standard for what is possible in terms of intelligent tolling solutions. The consequence is a domino effect, driving the widespread adoption of ETC systems on a global scale. As governments, transportation authorities, and commuters alike witness the tangible benefits of these technological advancements, the trajectory of the Electronic Toll Collection Market becomes increasingly defined by a future where innovation and efficiency reign supreme.

Traffic Congestion Management

The escalating quandary of traffic congestion in urban centers has evolved into a paramount concern for governments and transportation authorities across the globe. In response to this pressing issue, the Electronic Toll Collection (ETC) Market has emerged as a pivotal solution with the potential to address the multifaceted challenges posed by congested roadways. ETC systems play a pivotal role in transforming the landscape of traffic management by strategically mitigating bottlenecks at toll booths



through the implementation of swift and automated transactions. This revolutionary approach minimizes the time vehicles spend navigating toll collection points, imparting a dual benefit: not only does it substantially enhance the overall flow of vehicular traffic, but it also serves as a potent countermeasure against the environmental repercussions of congestion. The efficiency gains realized through ETC implementations contribute to a reduction in emissions and fuel consumption, aligning with broader sustainability objectives. This imperative to alleviate the adverse impacts of traffic congestion, both in terms of its economic and environmental consequences, serves as a paramount driver propelling the robust growth of the ETC market. As urban centers grapple with the challenges of burgeoning populations and increased vehicular density, the Electronic Toll Collection Market stands at the forefront as a transformative solution, offering a path towards more sustainable and fluid urban transportation ecosystems. The Florida Legislature initiated a program to develop three new toll roads spanning 330 miles across the state's rural areas, making it the largest toll-road project in the nation.

Cost-Efficiency and Revenue Generation

The recognition of Electronic Toll Collection (ETC) systems as catalysts for costefficiency and revenue generation has been steadily growing among governments and transportation agencies. ETC emerges as a transformative solution by significantly minimizing the reliance on manual toll collection processes, thereby yielding substantial reductions in labor costs and operational expenses. The intrinsic automation embedded within ETC transactions not only expedites toll collection but also optimizes toll booth throughput, presenting authorities with a means to collect tolls in a more streamlined and efficient manner. Beyond its immediate financial benefits, ETC systems offer an additional layer of value through the provision of comprehensive data and analytics on traffic patterns. This wealth of information empowers decision-makers in governments and transportation agencies to make informed choices regarding infrastructure planning and optimization. The synergistic blend of revenue generation and operational cost savings positions ETC as an exceptionally appealing investment for governments seeking sustainable funding sources for the development and maintenance of road infrastructure. As a result, the trajectory of ETC adoption is propelled not only by its immediate financial advantages but also by its strategic role in fostering data-driven decision-making and long-term infrastructure sustainability.

Key Market Challenges

Interoperability and Standardization Challenges



A formidable challenge confronting the Global Electronic Toll Collection (ETC) Market revolves around the absence of standardized interoperability across diverse regions and systems. With the increasing ubiquity of ETC systems, the deficiency in uniform protocols poses significant hurdles to achieving seamless cross-border and crosssystem operations. The proliferation of diverse technologies and communication standards creates a landscape where interoperability between ETC systems, implemented by disparate authorities or in different geographic domains, becomes an intricate puzzle. This lack of standardization not only introduces complexities into the user experience but also presents formidable challenges for multinational logistics and transportation entities. The intricacies stemming from this heterogeneity hinder the fluidity of operations and pose obstacles to the establishment of streamlined toll collection networks on an international scale. Recognizing the imperative for globally accepted standards in ETC systems becomes paramount, not only to ensure technical compatibility but also to engender operational efficiencies and foster a more connected and seamless toll collection infrastructure worldwide. Addressing this challenge head-on becomes instrumental in unlocking the full potential of ETC systems as transformative components of the global transportation ecosystem.

Privacy and Data Security Concerns

The widespread adoption of Electronic Toll Collection (ETC) systems has given rise to substantial apprehensions regarding privacy and data security. The foundation of ETC relies inherently on the gathering, retention, and processing of highly sensitive personal and vehicle-related information. The potential for misuse or unauthorized access to this data presents a formidable challenge, necessitating the implementation of robust security measures to safeguard the privacy of users. Governments and ETC service providers find themselves confronted with the imperative of enforcing stringent data protection protocols, deploying cutting-edge encryption technologies, and adopting secure storage practices to mitigate the ever-looming risk of cyber threats and data breaches. Striking a delicate balance between the imperative for data-driven insights and the paramount need to shield user privacy emerges as a multifaceted and intricate challenge, requiring sustained innovation and collaborative efforts within the industry. The evolving landscape of privacy concerns in the realm of ETC underscores the pressing need for a proactive and dynamic approach to security, where the continuous enhancement of protective measures remains pivotal to instill user trust and confidence in the integrity of these systems. As ETC systems continue to play an increasingly central role in modern transportation, the confluence of data-driven innovation and unwavering commitment to privacy emerges as a critical determinant of the industry's sustainable growth and societal acceptance.



Initial Implementation Costs and Infrastructure Investment

The upfront costs associated with implementing Electronic Toll Collection systems present a significant challenge for governments and transportation authorities. The deployment of advanced technologies, including RFID, GPS, and communication networks, requires substantial initial capital investment. Governments must allocate budgets for infrastructure upgrades, equipment installation, and system integration. While the long-term benefits in terms of operational efficiency and revenue generation are evident, overcoming the hurdle of initial implementation costs can be a barrier, particularly for economically strained regions. Striking a balance between short-term financial constraints and long-term infrastructure modernization goals is essential to ensure the widespread adoption of ETC systems.

Public Resistance and Behavioral Change

Introducing Electronic Toll Collection systems often encounters resistance from the public, stemming from concerns about privacy, technology reliability, and a general aversion to change. Convincing commuters to shift from familiar manual toll payment methods to electronic and automated systems requires effective communication and education campaigns. There is a need for seamless integration of ETC with existing transportation ecosystems to minimize disruption and facilitate a smooth transition. Addressing public skepticism and promoting awareness about the benefits of ETC, such as reduced travel time and environmental impact, is essential to overcome resistance and ensure the successful implementation of electronic toll collection on a broader scale.

Key Market Trends

Integration of Advanced Technologies

An eminent trend in the Global Electronic Toll Collection (ETC) Market revolves around the swift integration of cutting-edge technologies to augment the capabilities of toll collection systems. RFID (Radio-Frequency Identification), GPS (Global Positioning System), artificial intelligence, and machine learning are being strategically harnessed to redefine and optimize the entire toll collection landscape. This convergence of technologies goes beyond merely streamlining toll transactions; it extends to the realm of real-time data analytics, providing invaluable insights for traffic management and infrastructure planning. The trajectory towards the amalgamation of these advanced



technologies not only underscores the industry's dedication to innovation but also represents a profound commitment to providing users with an experience that is both seamless and technologically sophisticated. As the Electronic Toll Collection Market evolves, this trend positions it at the vanguard of the intelligent transportation revolution, where the fusion of cutting-edge technologies reshapes not only how tolls are collected but also how transportation networks are envisioned, managed, and optimized in real-time.

Shift Towards All-Electronic Tolling (AET) Systems

A significant trend gaining prominence in the Global Electronic Toll Collection (ETC) Market is the escalating adoption of All-Electronic Tolling (AET) systems, marking a decisive departure from traditional toll booths and manual payment processes. AET, underpinned by electronic methodologies like RFID tags and license plate recognition, revolutionizes toll collection by eliminating the necessity for vehicles to stop or decelerate. This transformative trend is propelled by a collective aspiration to enhance traffic flow dynamics, alleviate congestion, and fortify overall road safety. Governments and transportation authorities on a global scale are increasingly cognizant of the manifold benefits, including efficiency gains and cost savings, offered by AET systems. These advantages have become instrumental in propelling AET into the mainstream, positioning it as a cornerstone in the Electronic Toll Collection Market's evolution. The broader implications of this trend extend beyond operational enhancements, influencing the very fabric of how societies navigate and interact with transportation infrastructure, ushering in an era where seamless and automated tolling experiences redefine the norms of modern mobility.

Emphasis on Interoperability and Standardization

A burgeoning trend within the Electronic Toll Collection (ETC) Market centers around an increasing emphasis on interoperability and standardization. As ETC systems proliferate on a global scale, there is a discerning acknowledgment of the imperative for consistent protocols and communication standards, essential for ensuring seamless operations across diverse regions and systems. Recognizing this need, the industry is actively engaged in efforts to establish international interoperability standards, gaining momentum in the process. This concerted endeavor is not merely a technical pursuit; rather, it represents a strategic move towards enhancing cross-border travel experiences and fostering the harmonious integration of varied ETC systems. The trend underscores a collaborative approach within the industry, indicating a collective commitment to surmount challenges associated with system compatibility. Through



these initiatives, the Electronic Toll Collection Market aims to augment the overall effectiveness of toll collection systems on a global scale, establishing a foundation for a more interconnected and efficient future in the realm of intelligent transportation systems. The drive towards interoperability and standardization represents a pivotal step forward, ensuring that ETC systems transcend geographical boundaries and disparate infrastructures, ultimately delivering a cohesive and user-centric tolling experience worldwide.

Mobile Payments and Contactless Transactions

A significant trend shaping the Electronic Toll Collection landscape is the increasing prevalence of mobile payments and contactless transactions. With the widespread use of smartphones, ETC systems are incorporating mobile applications and contactless payment methods to provide users with convenient and secure payment options. This trend aligns with broader shifts in consumer behavior towards digital and contactless payments, offering commuters a streamlined and user-friendly experience. The integration of mobile payment solutions not only enhances convenience but also contributes to reducing transaction times, further optimizing the efficiency of electronic toll collection systems.

Segmental Insights

Technology Insights

Automatic Vehicle Identification (AVI) segment emerged as the dominant force in the Global Electronic Toll Collection Market and is poised to maintain its supremacy throughout the forecast period. AVI technology, which encompasses RFID (Radio-Frequency Identification) and other advanced identification methods, has proven to be a cornerstone in the evolution of toll collection systems. The widespread adoption of AVI is attributed to its ability to enable swift and contactless toll transactions, significantly reducing traffic congestion and enhancing overall operational efficiency. AVI allows for seamless identification of vehicles as they pass through tolling points, automating the toll collection process and improving the overall user experience. Its efficiency in handling high traffic volumes, coupled with the ease of integration with various tolling infrastructures, positions AVI as a preferred technology in the Electronic Toll Collection Market. As the demand for streamlined and technologically advanced tolling solutions continues to grow, the Automatic Vehicle Identification segment is anticipated to maintain its dominance, driven by its proven effectiveness, reliability, and contribution to the ongoing evolution of intelligent transportation systems on a global scale.



Regional Insights

The Asia-Pacific region emerged as the dominant force in the Global Electronic Toll Collection Market, and it is expected to maintain its dominance during the forecast period. The rapid economic growth, burgeoning urbanization, and extensive infrastructure development initiatives in countries like China, India, and Japan have fueled the demand for advanced transportation solutions, including Electronic Toll Collection (ETC). Governments in the Asia-Pacific region have been proactive in implementing intelligent transportation systems to address growing traffic congestion and enhance overall mobility. The region's commitment to smart city initiatives, coupled with substantial investments in road infrastructure, has propelled the widespread adoption of ETC technologies. The increasing emphasis on environmental sustainability and the need for efficient traffic management further drive the adoption of ETC systems in this region. As urban populations continue to rise and road networks expand, the Asia-Pacific region is expected to maintain its dominance in the Electronic Toll Collection Market, reflecting sustained demand for innovative tolling solutions and the region's pivotal role in shaping the future of intelligent transportation on a global scale.

Conduent Inc.

Key Market Players

DENSO Corporation

EFKON GmbH

GeoToll Inc.

Quarterhill Inc.

Kapsch TrafficCom AG

PERCEPTICS, LLC

Q-Free AS

RTX Corporation



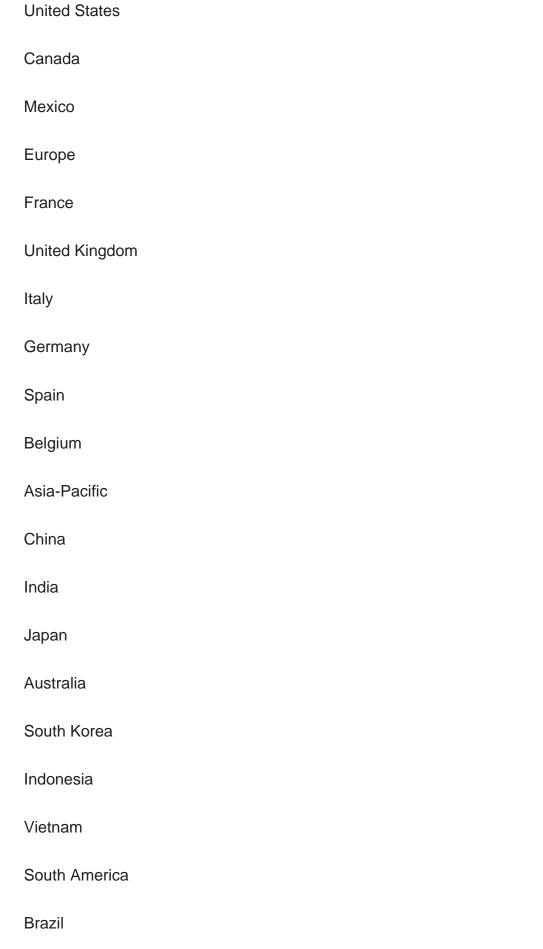
Siemens AG

Report Scope:
In this report, the Global Electronic Toll Collection Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
Electronic Toll Collection Market, By Technology:
Automatic Vehicle Identification (AVI)
Automated Vehicle Classification (AVC)
Violation Enforcement System (VES)
Toll Transaction Processing System
Electronic Toll Collection Market, By Means of Collection:
Prepaid
Postpaid
Electronic Toll Collection Market, By Application:
Roads
Bridges
Tunnels
Ferries

Electronic Toll Collection Market, By Region:

North America







Argentina
Colombia
Chile
Peru
Middle East & Africa
South Africa
Saudi Arabia
UAE
Turkey
Israel
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present in the Global Electronic Toll Collection Market.
Available Customizations:
Global Electronic Toll Collection market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
Detailed analysis and profiling of additional market players (up to five).



Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.2.1. Markets Covered
- 1.2.2. Years Considered for Study
- 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

- 4. IMPACT OF COVID-19 ON GLOBAL ELECTRONIC TOLL COLLECTION MARKET
- 5. VOICE OF CUSTOMER
- 6. GLOBAL ELECTRONIC TOLL COLLECTION MARKET OVERVIEW
- 7. GLOBAL ELECTRONIC TOLL COLLECTION MARKET OUTLOOK
- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast



- 7.2.1. By Technology (Automatic Vehicle Identification (AVI), Automated Vehicle Classification (AVC), Violation Enforcement System (VES), Toll Transaction Processing System)
- 7.2.2. By Means of Collection (Prepaid, Postpaid)
- 7.2.3. By Application (Roads, Bridges, Tunnels, Ferries)
- 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 7.3. By Company (2024)
- 7.4. Market Map

8. NORTH AMERICA ELECTRONIC TOLL COLLECTION MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Technology
 - 8.2.2. By Means of Collection
 - 8.2.3. By Application
 - 8.2.4. By Country
- 8.3. North America: Country Analysis
 - 8.3.1. United States Electronic Toll Collection Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Technology
 - 8.3.1.2.2. By Means of Collection
 - 8.3.1.2.3. By Application
 - 8.3.2. Canada Electronic Toll Collection Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Technology
 - 8.3.2.2.2. By Means of Collection
 - 8.3.2.2.3. By Application
 - 8.3.3. Mexico Electronic Toll Collection Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Technology



8.3.3.2.2. By Means of Collection

8.3.3.2.3. By Application

9. EUROPE ELECTRONIC TOLL COLLECTION MARKET OUTLOOK

Q	1	Mai	rket	Size	ጼ	Forecas	1
· / .		IVICI	L/C-L	OIZG	LX.	1 015563	, 1

- 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Technology
 - 9.2.2. By Means of Collection
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Europe: Country Analysis
 - 9.3.1. Germany Electronic Toll Collection Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Technology
 - 9.3.1.2.2. By Means of Collection
 - 9.3.1.2.3. By Application
 - 9.3.2. France Electronic Toll Collection Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Technology
 - 9.3.2.2.2. By Means of Collection
 - 9.3.2.2.3. By Application
 - 9.3.3. United Kingdom Electronic Toll Collection Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Technology
 - 9.3.3.2.2. By Means of Collection
 - 9.3.3.2.3. By Application
 - 9.3.4. Italy Electronic Toll Collection Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Technology



- 9.3.4.2.2. By Means of Collection
- 9.3.4.2.3. By Application
- 9.3.5. Spain Electronic Toll Collection Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Technology
 - 9.3.5.2.2. By Means of Collection
 - 9.3.5.2.3. By Application
- 9.3.6. Belgium Electronic Toll Collection Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Technology
 - 9.3.6.2.2. By Means of Collection
 - 9.3.6.2.3. By Application

10. SOUTH AMERICA ELECTRONIC TOLL COLLECTION MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Technology
 - 10.2.2. By Means of Collection
 - 10.2.3. By Application
 - 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil Electronic Toll Collection Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Technology
 - 10.3.1.2.2. By Means of Collection
 - 10.3.1.2.3. By Application
 - 10.3.2. Colombia Electronic Toll Collection Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Technology



10.3.2.2.2. By Means of Collection

10.3.2.2.3. By Application

10.3.3. Argentina Electronic Toll Collection Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Technology

10.3.3.2.2. By Means of Collection

10.3.3.2.3. By Application

10.3.4. Chile Electronic Toll Collection Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Technology

10.3.4.2.2. By Means of Collection

10.3.4.2.3. By Application

10.3.5. Peru Electronic Toll Collection Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Technology

10.3.5.2.2. By Means of Collection

10.3.5.2.3. By Application

11. MIDDLE EAST & AFRICA ELECTRONIC TOLL COLLECTION MARKET OUTLOOK

11.1. Market Size & Forecast

11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Technology

11.2.2. By Means of Collection

11.2.3. By Application

11.2.4. By Country

11.3. Middle East & Africa: Country Analysis

11.3.1. Saudi Arabia Electronic Toll Collection Market Outlook

11.3.1.1. Market Size & Forecast

11.3.1.1.1 By Value

11.3.1.2. Market Share & Forecast



- 11.3.1.2.1. By Technology
- 11.3.1.2.2. By Means of Collection
- 11.3.1.2.3. By Application
- 11.3.2. UAE Electronic Toll Collection Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Technology
 - 11.3.2.2.2. By Means of Collection
 - 11.3.2.2.3. By Application
- 11.3.3. South Africa Electronic Toll Collection Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Technology
 - 11.3.3.2.2. By Means of Collection
 - 11.3.3.2.3. By Application
- 11.3.4. Turkey Electronic Toll Collection Market Outlook
 - 11.3.4.1. Market Size & Forecast
 - 11.3.4.1.1. By Value
 - 11.3.4.2. Market Share & Forecast
 - 11.3.4.2.1. By Technology
 - 11.3.4.2.2. By Means of Collection
 - 11.3.4.2.3. By Application
- 11.3.5. Israel Electronic Toll Collection Market Outlook
 - 11.3.5.1. Market Size & Forecast
 - 11.3.5.1.1. By Value
 - 11.3.5.2. Market Share & Forecast
 - 11.3.5.2.1. By Technology
 - 11.3.5.2.2. By Means of Collection
 - 11.3.5.2.3. By Application

12. ASIA PACIFIC ELECTRONIC TOLL COLLECTION MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Technology
 - 12.2.2. By Means of Collection



12.2.3. By Application

12.2.4. By Country

12.3. Asia Pacific: Country Analysis

12.3.1. China Electronic Toll Collection Market Outlook

12.3.1.1. Market Size & Forecast

12.3.1.1.1. By Value

12.3.1.2. Market Share & Forecast

12.3.1.2.1. By Technology

12.3.1.2.2. By Means of Collection

12.3.1.2.3. By Application

12.3.2. India Electronic Toll Collection Market Outlook

12.3.2.1. Market Size & Forecast

12.3.2.1.1. By Value

12.3.2.2. Market Share & Forecast

12.3.2.2.1. By Technology

12.3.2.2. By Means of Collection

12.3.2.2.3. By Application

12.3.3. Japan Electronic Toll Collection Market Outlook

12.3.3.1. Market Size & Forecast

12.3.3.1.1. By Value

12.3.3.2. Market Share & Forecast

12.3.3.2.1. By Technology

12.3.3.2.2. By Means of Collection

12.3.3.2.3. By Application

12.3.4. South Korea Electronic Toll Collection Market Outlook

12.3.4.1. Market Size & Forecast

12.3.4.1.1. By Value

12.3.4.2. Market Share & Forecast

12.3.4.2.1. By Technology

12.3.4.2.2. By Means of Collection

12.3.4.2.3. By Application

12.3.5. Australia Electronic Toll Collection Market Outlook

12.3.5.1. Market Size & Forecast

12.3.5.1.1. By Value

12.3.5.2. Market Share & Forecast

12.3.5.2.1. By Technology

12.3.5.2.2. By Means of Collection

12.3.5.2.3. By Application

12.3.6. Indonesia Electronic Toll Collection Market Outlook



- 12.3.6.1. Market Size & Forecast
 - 12.3.6.1.1. By Value
- 12.3.6.2. Market Share & Forecast
 - 12.3.6.2.1. By Technology
 - 12.3.6.2.2. By Means of Collection
 - 12.3.6.2.3. By Application
- 12.3.7. Vietnam Electronic Toll Collection Market Outlook
 - 12.3.7.1. Market Size & Forecast
 - 12.3.7.1.1. By Value
 - 12.3.7.2. Market Share & Forecast
 - 12.3.7.2.1. By Technology
 - 12.3.7.2.2. By Means of Collection
 - 12.3.7.2.3. By Application

13. MARKET DYNAMICS

- 13.1. Drivers
- 13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

- 15.1. Conduent Inc.
 - 15.1.1. Business Overview
 - 15.1.2. Key Revenue and Financials
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel/Key Contact Person
 - 15.1.5. Key Product/Services Offered
- 15.2. DENSO Corporation
 - 15.2.1. Business Overview
 - 15.2.2. Key Revenue and Financials
 - 15.2.3. Recent Developments
 - 15.2.4. Key Personnel/Key Contact Person
 - 15.2.5. Key Product/Services Offered
- 15.3. EFKON GmbH
 - 15.3.1. Business Overview
 - 15.3.2. Key Revenue and Financials
 - 15.3.3. Recent Developments



- 15.3.4. Key Personnel/Key Contact Person
- 15.3.5. Key Product/Services Offered
- 15.4. GeoToll Inc.
 - 15.4.1. Business Overview
 - 15.4.2. Key Revenue and Financials
 - 15.4.3. Recent Developments
 - 15.4.4. Key Personnel/Key Contact Person
 - 15.4.5. Key Product/Services Offered
- 15.5. Quarterhill Inc.
 - 15.5.1. Business Overview
 - 15.5.2. Key Revenue and Financials
 - 15.5.3. Recent Developments
 - 15.5.4. Key Personnel/Key Contact Person
 - 15.5.5. Key Product/Services Offered
- 15.6. Kapsch TrafficCom AG
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel/Key Contact Person
 - 15.6.5. Key Product/Services Offered
- 15.7. PERCEPTICS, LLC
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel/Key Contact Person
 - 15.7.5. Key Product/Services Offered
- 15.8. Q-Free AS
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel/Key Contact Person
 - 15.8.5. Key Product/Services Offered
- 15.9. RTX Corporation
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel/Key Contact Person
- 15.9.5. Key Product/Services Offered
- 15.10. Siemens AG



- 15.10.1. Business Overview
- 15.10.2. Key Revenue and Financials
- 15.10.3. Recent Developments
- 15.10.4. Key Personnel/Key Contact Person
- 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

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