

Automotive Cloud Based Solutions Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. Segmented By Vehicle Type (Passenger Cars and Commercial Vehicles), By Electric Vehicle Type (BEV, HEV and PHEV), By Deployment Type (Private Cloud and Public Cloud), By Service Model (Professional Services and Managed Services), By Application (Fleet Management Infotainment, ADAS, Telematics, and Others) By Region, By Company and By Geography, Forecast & Opportunities, 2018-2028

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Abstracts

The Global Automotive Cloud Based Solutions Market was valued at USD 52.34 Billion in 2022 and growing at a CAGR of 16.45% during the forecast period. The Global Automotive Cloud-Based Solutions Market is poised to experience substantial growth, driven by the convergence of the automotive and technology sectors. This market encompasses a wide range of services and applications that leverage cloud computing to enhance vehicle performance, connectivity, and user experience. The increasing integration of advanced technologies, such as IoT, AI, and telematics, into vehicles has amplified the demand for cloud solutions to enable real-time data analysis, remote diagnostics, over-the-air updates, and connected services. The automotive industry's shift towards electric and autonomous vehicles further accentuates the need for cloud-based platforms to support the complex software and data requirements of these vehicles. Major players in the sector are focused on developing secure, scalable, and reliable cloud solutions to address the challenges of data management, cybersecurity, and seamless connectivity. As the market continues to evolve, collaborations between

automakers, tech companies, and cloud service providers are expected to shape the competitive landscape, ultimately influencing the trajectory of the automotive industry.

Key Market Drivers

Advancements in Vehicle Connectivity and Digitalization

The rapid evolution of vehicle connectivity and digitalization is a key driving force behind the Global Automotive Cloud-Based Solutions Market. With automobiles becoming increasingly intertwined with technological advancements, cloud-based solutions are emerging as essential enablers for elevating vehicle functionalities. These dynamic solutions facilitate seamless connections that span vehicles, users, and infrastructure, ushering in a new era of capabilities. Among the array of benefits, cloud-based solutions offer real-time navigation, remote diagnostics, and over-the-air software updates, enhancing both vehicle performance and user experience. A noteworthy aspect of this trend is the integration of Internet of Things (IoT) devices within vehicles, which fosters a continuous exchange of data and its subsequent analysis. This integration contributes to the enhancement of safety measures, convenience features, and the overall driving encounter. As consumer expectations continue to evolve, and the demand for intelligent, interconnected vehicles surges, the adoption of cloud-based solutions is projected to exert a profound influence on the automotive landscape. This transformation isn't merely limited to technology integration but extends to redefining the very nature of driving experiences, turning vehicles into hubs of data-driven insights and services. The foreseeable future anticipates a paradigm shift in how vehicles operate and interact with their surroundings, with cloud-based solutions forming the linchpin of this transformative journey.

Evolving Electric and Autonomous Vehicle Landscape

The surge towards electric and autonomous vehicles stands as a pivotal catalyst propelling the Global Automotive Cloud-Based Solutions Market. The momentum in electric vehicles (EVs) and autonomous vehicles (AVs) hinges on intricate software systems that underpin their intricate operations. In this transformative landscape, cloud-based platforms emerge as critical infrastructure facilitating the management and upkeep of the intricate software and algorithms indispensable to the functioning of EVs and AVs. Moreover, these platforms establish a vital conduit for vehicle-to-cloud communication, a dynamic that amplifies the capabilities of autonomous vehicles by enabling the exchange of data and real-time decision-making processes. This synergy

not only enhances the operational acumen of AVs but also elevates their responsiveness in real-world scenarios. The innate scalability and adaptability intrinsic to cloud solutions align seamlessly with the distinctive requisites of EVs and AVs, ultimately expediting their integration and hastening the expansion of the market. In this symbiotic relationship between cutting-edge vehicles and cloud-based systems, the market charts a transformative course. Cloud solutions not only bolster the innovation-driven advancements of EVs and AVs but also lay the foundation for a future where automotive mobility converges with technology in unprecedented ways. As the automotive landscape reshapes, the growth of the market pivots on the pivotal role played by cloud-based solutions in sustaining and accelerating the adoption of electric and autonomous vehicles.

Demand for Data-Driven Insights and Personalized Services

The burgeoning demand for data-driven insights and individualized services within the automotive sector is a pivotal driving force behind the expansion of cloud-based solutions. Within this context, automotive manufacturers and service providers are strategically harnessing cloud platforms to amass, retain, and dissect extensive volumes of data stemming from vehicles and users alike. This systematic approach centered around data empowers the provision of personalized services, encompassing predictive maintenance, real-time vehicle health monitoring, and tailor-made infotainment selections. The influence of cloud-based solutions extends further by fostering the seamless integration of external applications and services, thereby enriching the in-car experience with versatility and dynamism. This interconnectedness aligns with the evolving expectations of consumers who increasingly prioritize convenience and personalized offerings. The pivotal role of cloud-based solutions in fulfilling these demands is anticipated to catalyze the proliferation of the market, as they emerge as the conduit that bridges cutting-edge technology with the personalized mobility experiences that modern consumers seek. In this symbiotic interplay between data, cloud platforms, and enhanced services, the automotive landscape is poised for a paradigm shift, where vehicles metamorphose into hubs of curated experiences tailored to individual preferences.

Emphasis on Cybersecurity and Data Privacy

A pivotal force significantly shaping the trajectory of the Global Automotive Cloud-Based Solutions Market is the heightened emphasis on cybersecurity and the safeguarding of data privacy. This imperative arises in tandem with the growing interconnectivity of vehicles, a trend that amplifies the vulnerability to cyber threats and unauthorized

access to sensitive information. Within this context, cloud-based solutions emerge as a bulwark, fortified with advanced security measures encompassing encryption, authentication protocols, and secure communication frameworks. These measures collectively serve to shield both vehicle data and user information, assuring comprehensive protection. In a concerted effort to foster trust with consumers and adhere to regulatory mandates, manufacturers and service providers are recalibrating their priorities by placing cybersecurity at the forefront. The integration of robust security features within cloud-based platforms is no longer a luxury but a necessity, serving as a bedrock to preserve the sanctity and confidentiality of data linked to vehicles. As the automotive industry grapples with the evolving panorama of security challenges, the incorporation of secure cloud solutions emerges as a central theme catalyzing the market's expansion. The adoption of these solutions not only responds to the industry's clarion call for enhanced security but also augments its capacity to sustain its growth momentum in an era where safeguarding digital assets is paramount.

Key Market Challenges

Integration Complexity and Legacy Systems

The Global Automotive Cloud-Based Solutions Market grapples with the challenge of integration complexity and legacy systems as the automotive industry endeavors to embrace digital transformation. Numerous vehicles and manufacturing processes still operate on legacy systems that might lack compatibility with modern cloud-based solutions. The process of seamlessly integrating these advanced solutions with existing infrastructure demands meticulous planning, compatibility assessments, and sometimes gradual phased transitions. The challenge lies in smoothly migrating from outdated setups to state-of-the-art cloud solutions while ensuring uninterrupted operations and avoiding potential disruptions.

Cybersecurity and Data Protection

A paramount challenge confronting the Global Automotive Cloud-Based Solutions Market is the pressing need for robust cybersecurity and safeguarding against data breaches. With the increasing interconnectivity of vehicles and data-driven functionalities, the risk of cyberattacks targeting critical vehicular infrastructure escalates. Cloud-based systems that manage essential aspects of automotive operations become attractive targets for malicious entities. Ensuring the cybersecurity of these solutions mandates stringent measures, including network fortification, intrusion detection mechanisms, regular security assessments, and continuous employee

training. Striking a balance between operational efficiency and comprehensive security protocols is vital to protecting critical operations and thwarting potential breaches.

Interoperability and Standards Adherence

The challenge of interoperability and adhering to standards arises from the diverse range of technologies, protocols, and devices employed across different facets of the Global Automotive Cloud-Based Solutions Market. Varying vehicles and systems may employ disparate communication protocols and technologies, complicating seamless data exchange and integration. The establishment of standardized communication protocols and interfaces is pivotal to achieving harmonious interoperability between different components and systems. However, achieving broad standardization can be intricate due to the coexistence of legacy systems and proprietary technologies. Overcoming this challenge necessitates collaborative efforts within the industry, the formulation of open communication standards, and the development of solutions that bridge the gap between diverse technologies and protocols.

Skills Shortage and Training

The scarcity of skilled professionals equipped with comprehensive training in managing and maintaining cloud-based solutions constitutes a significant hurdle. As the automotive landscape evolves, embracing sophisticated cloud technologies, the demand for adept engineers and technicians capable of navigating and resolving intricacies in these advanced systems intensifies. Addressing this skills gap mandates robust training programs covering both traditional automotive systems and cutting-edge cloud-based solutions. Moreover, providing continuous training to keep abreast of technological advancements is indispensable to ensure the effective operation and upkeep of cloud-based automotive systems. Tackling this challenge is pivotal to optimizing the advantages of cloud technology and circumventing operational hiccups arising from a shortage of expertise.

Key Market Trends

Integration with IoT and Edge Computing

A dominant trend steering the Global Automotive Cloud-Based Solutions Market is the convergence with IoT and Edge Computing. As the era of the Internet of Things (IoT) unfolds, cloud-based solutions are undergoing a transformative evolution, seamlessly intertwining with IoT devices and the capabilities of edge computing. This symbiotic

integration imparts the ability for real-time data acquisition, comprehensive analysis, and agile decision-making, thereby facilitating predictive maintenance strategies and the optimization of resource utilization. This trend assumes paramount significance within the automotive landscape, as it dovetails with IoT-driven insights that inherently elevate vehicle performance, bolster safety measures, and enrich the overall driving encounter. The embrace of both IoT and edge computing places cloud-based automotive solutions squarely at the forefront of a pivotal convergence, one that knits together cutting-edge vehicle technology with the profundity of data-driven intelligence. In the context of this amalgamation, cloud-based solutions redefine the contours of vehicular operation and interaction, charting a course toward a future distinguished by smarter, more connected, and highly intelligent automotive experiences.

Advanced Data Analytics and Predictive Insights

An eminent trend in the Global Automotive Cloud-Based Solutions Market is the escalating emphasis on Advanced Data Analytics and Predictive Insights. Key players within the industry are strategically leveraging cloud-based solutions to distill actionable insights from the extensive reservoir of data originating from vehicles and users. By effectively harnessing the prowess of data analytics and predictive algorithms, these cloud solutions are adeptly positioned to forecast impending maintenance requirements, fine-tune optimal driving routes, and amplify overall vehicle efficiency. This burgeoning trend exerts a pivotal influence, contributing substantively to the enhancement of both consumer experiences and the intricate automotive supply chain. The evolutionary trajectory of cloud-based solutions entails the provision of increasingly sophisticated analytics tools. These tools function as the driving force propelling the industry towards a realm characterized by proactive decision-making and unparalleled operational excellence. The significance of this trend is underscored by its capacity to revolutionize the manner in which the automotive sector operates. By capitalizing on the abundance of data facilitated by cloud-based solutions, the industry is poised to proactively address challenges, optimize processes, and cater to consumer needs with heightened precision. As these solutions continue to evolve, fortified with advanced analytical capabilities, they solidify their role as pivotal enablers of transformative innovation, propelling the entire automotive ecosystem towards a future defined by data-driven insights and exceptional performance.

Shift towards Cloud Migration and Remote Connectivity

The ongoing paradigm shift towards Cloud Migration and Remote Connectivity is significantly reshaping the landscape of the Global Automotive Cloud-Based Solutions

Market, closely mirroring the overarching trend of digital transformation sweeping through the automotive industry. Amidst this transformative wave, cloud-based solutions are swiftly evolving to cater to the burgeoning need for remote access, continuous monitoring, and comprehensive data analysis, all orchestrated through robust cloud platforms. This particular trend holds profound relevance for sectors within the industry that demand instantaneous real-time insights and decision-making capabilities, notably encompassing vehicle manufacturers and fleet operators. The ascendancy of cloud-based automotive solutions further extends its significance through the facilitation of centralized data storage, expedited remote access to intricate vehicle diagnostics, and seamless collaborative capacities. These features ultimately empower businesses to navigate through the intricacies of geographically dispersed environments without compromising operational excellence. As the automotive domain increasingly embraces the realm of cloud technology, a palpable transformation is underway, promising to propel the sector towards heightened levels of operational efficiency and connectivity. The amalgamation of cloud technology within the automotive landscape brings forth the promise of streamlined operations, interconnected systems, and enhanced communication channels. As cloud solutions continue to mature and solidify their role as enablers of remote access and real-time insights, the automotive industry stands on the precipice of an era marked by unprecedented connectivity, efficiency, and innovation. Through the lens of this transformative trend, the automotive domain is primed to flourish in a digitally charged future, where cloud-based solutions are the cornerstone of progress.

Segmental Insights

Vehicle Type Insights

The Passenger Cars segment emerged as the dominant force in the Global Automotive Cloud-Based Solutions Market. This trend is anticipated to persist throughout the forecast period. Passenger Cars have been at the forefront of adopting cloud-based solutions due to the increasing integration of technology in modern vehicles, resulting in enhanced connectivity, navigation, and user experiences. The surge in demand for connected services, real-time updates, and personalized features has driven the prominence of cloud-based solutions in the Passenger Cars segment. This dominance is projected to continue as automakers continue to invest in cloud infrastructure and services to cater to the evolving preferences of consumers. Commercial Vehicles are also embracing these solutions, but the Passenger Cars segment's early adoption and substantial consumer-driven demand are likely to maintain its dominance in the coming years.

Deployment Type Insights

The Private Cloud deployment type asserted its dominance in the Global Automotive Cloud-Based Solutions Market, a trend anticipated to endure over the forecast period. Private Cloud deployment offers tailored solutions, enhancing data security and control for automotive manufacturers and service providers. The complex nature of vehicle-related data and the emphasis on protecting sensitive information have driven the preference for Private Cloud solutions, facilitating customized features and seamless integration with existing infrastructure. This dominance is poised to persist as the automotive industry continues to prioritize data privacy, compliance, and customizable services. Private Cloud solutions cater to the unique requirements of the automotive sector, accommodating regulatory norms and proprietary concerns. While Public Cloud solutions offer scalability, the critical nature of vehicle data and the need for specialized services underpin the sustained prevalence of Private Cloud deployment. While Public Cloud solutions may gain traction due to their scalability and cost-efficiency, the intrinsic value placed on data security and customization within the automotive sector is likely to maintain the dominance of Private Cloud deployment, ensuring that the unique demands of the industry remain meticulously addressed.

Application Insights

The Fleet Management Application segment emerged as the dominant force in the Global Automotive Cloud-Based Solutions Market, and this dominance is projected to continue throughout the forecast period. Fleet management applications have experienced substantial adoption due to their pivotal role in optimizing vehicle operations, logistics, and efficiency for businesses and service providers. The need for real-time vehicle tracking, route optimization, maintenance scheduling, and driver management has propelled the prominence of cloud-based solutions within the fleet management domain. As businesses increasingly recognize the advantages of cloud-based fleet management solutions, including cost savings, improved resource utilization, and enhanced customer service, the dominance of the Fleet Management Application segment is expected to endure. While other applications within the automotive cloud-based solutions sphere are relevant, the critical role that fleet management plays in optimizing operations and reducing costs solidifies its position as a dominant force in the market.

Regional Insights

In the year 2022, North America established its dominance in the global automotive cloud-based solutions market, and this dominance is projected to persist throughout the forecast period spanning from 2023 to 2029. The region's robust standing is attributed to its concentration of automotive original equipment manufacturers (OEMs) and Tier 1 suppliers, who are directing substantial investments towards the advancement and adoption of cloud-based solutions. Moreover, North America boasts a well-developed cloud computing infrastructure, rendering it an appealing arena for providers of automotive cloud-based solutions. The driving forces behind the escalating growth of the automotive cloud-based solutions market in North America are multifaceted. Primarily, the escalating adoption of cloud-based services across diverse sectors, including the automotive realm, is invigorating the landscape. These solutions offer a gamut of advantages over conventional on-premises counterparts, encompassing scalability, adaptability, and financial efficiency. Concurrently, the continuous enhancement of features and functionalities within automotive cloud-based solutions elevates their allure, particularly captivating automotive OEMs and Tier 1 suppliers. Another instrumental impetus stems from the surging demand for connected and autonomous vehicles. This burgeoning trend necessitates the processing and analysis of substantial data volumes, a task in which cloud-based solutions excel due to their adeptness in accommodating sizable datasets with requisite scalability and flexibility. In summation, North America's dominance in the global automotive cloud-based solutions market is grounded in its confluence of industry innovation, well-established cloud infrastructure, and an unyielding commitment to optimizing the driving experience through cutting-edge technologies.

Key Market Players

Microsoft Corporation

IBM Corporation

Amazon Web Services, Inc.

Google LLC

Cisco Systems, Inc.

Oracle Corporation

Intel Corporation

Verizon Communications Inc.

Siemens AG

Robert Bosch GmbH

Continental AG

Harman International Industries, Inc.

Delphi Technologies (Aptiv PLC)

TomTom N.V.

Report Scope:

In this report, the Global Automotive Cloud Based Solutions Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Automotive Cloud Based Solutions Market, By Vehicle Type:

Passenger Cars

Commercial Vehicles

Global Automotive Cloud Based Solutions Market, By Electric Vehicle Type:

EV

HEV

PHEV

Global Automotive Cloud Based Solutions Market, By Deployment Type:

Private Cloud

Public Cloud

Global Automotive Cloud Based Solutions Market, By Service Model:

Professional Services

Managed Services

Global Automotive Cloud Based Solutions Market, By Application:

Fleet Management

Infotainment

ADAS

Telematics

Others

Global Automotive Cloud Based Solutions Market, By Region:

North America

Europe

South America

Middle East & Africa

Asia Pacific

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Cloud Based Solutions Market.

Available Customizations:

Automotive Cloud Based Solutions Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. Segme...

Global Automotive Cloud Based Solutions Market report with the given market data, Tech Sci 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. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET

5. VOICE OF CUSTOMER

6. GLOBAL AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OVERVIEW

7. GLOBAL AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Vehicle Type (Passenger Cars and Commercial Vehicles)
 - 7.2.2. By Electric Vehicle Type (BEV, HEV and PHEV)
 - 7.2.3. By Deployment Type (Private Cloud and Public Cloud)
 - 7.2.4. By Service Model (Professional Services and Managed Services)
 - 7.2.5. By Application (Fleet Management Infotainment, ADAS, Telematics, and Others)
 - 7.2.6. By Region (North America, Europe, South America, Middle East & Africa, Asia)

Pacific)

7.3. By Company (2022)

7.4. Market Map

8. NORTH AMERICA AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Vehicle Type

8.2.2. By Electric Vehicle Type

8.2.3. By Deployment Type

8.2.4. By Service Model

8.2.5. By Application

8.2.6. By Country

8.2.6.1. United States Automotive Cloud Based Solutions Market Outlook

8.2.6.1.1. Market Size & Forecast

8.2.6.1.1.1. By Value

8.2.6.1.2. Market Share & Forecast

8.2.6.1.2.1. By Vehicle Type

8.2.6.1.2.2. By Electric Vehicle Type

8.2.6.1.2.3. By Deployment Type

8.2.6.1.2.4. By Service Model

8.2.6.1.2.5. By Application

8.2.6.2. Canada Automotive Cloud Based Solutions Market Outlook

8.2.6.2.1. Market Size & Forecast

8.2.6.2.1.1. By Value

8.2.6.2.2. Market Share & Forecast

8.2.6.2.2.1. By Vehicle Type

8.2.6.2.2.2. By Electric Vehicle Type

8.2.6.2.2.3. By Deployment Type

8.2.6.2.2.4. By Service Model

8.2.6.2.2.5. By Application

8.2.6.3. Mexico Automotive Cloud Based Solutions Market Outlook

8.2.6.3.1. Market Size & Forecast

8.2.6.3.1.1. By Value

8.2.6.3.2. Market Share & Forecast

8.2.6.3.2.1. By Vehicle Type

- 8.2.6.3.2.2. By Electric Vehicle Type
- 8.2.6.3.2.3. By Deployment Type
- 8.2.6.3.2.4. By Service Model
- 8.2.6.3.2.5. By Application

9. EUROPE AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Vehicle Type

9.2.2. By Electric Vehicle Type

9.2.3. By Deployment Type

9.2.4. By Service Model

9.2.5. By Application

9.2.6. By Country

9.2.6.1. Germany Automotive Cloud Based Solutions Market Outlook

9.2.6.1.1. Market Size & Forecast

9.2.6.1.1.1. By Value

9.2.6.1.2. Market Share & Forecast

9.2.6.1.2.1. By Vehicle Type

9.2.6.1.2.2. By Electric Vehicle Type

9.2.6.1.2.3. By Deployment Type

9.2.6.1.2.4. By Service Model

9.2.6.1.2.5. By Application

9.2.6.2. France Automotive Cloud Based Solutions Market Outlook

9.2.6.2.1. Market Size & Forecast

9.2.6.2.1.1. By Value

9.2.6.2.2. Market Share & Forecast

9.2.6.2.2.1. By Vehicle Type

9.2.6.2.2.2. By Electric Vehicle Type

9.2.6.2.2.3. By Deployment Type

9.2.6.2.2.4. By Service Model

9.2.6.2.2.5. By Application

9.2.6.3. United Kingdom Automotive Cloud Based Solutions Market Outlook

9.2.6.3.1. Market Size & Forecast

9.2.6.3.1.1. By Value

9.2.6.3.2. Market Share & Forecast

9.2.6.3.2.1. By Vehicle Type

- 9.2.6.3.2.2. By Electric Vehicle Type
- 9.2.6.3.2.3. By Deployment Type
- 9.2.6.3.2.4. By Service Model
- 9.2.6.3.2.5. By Application
- 9.2.6.4. Italy Automotive Cloud Based Solutions Market Outlook
 - 9.2.6.4.1. Market Size & Forecast
 - 9.2.6.4.1.1. By Value
 - 9.2.6.4.2. Market Share & Forecast
 - 9.2.6.4.2.1. By Vehicle Type
 - 9.2.6.4.2.2. By Electric Vehicle Type
 - 9.2.6.4.2.3. By Deployment Type
 - 9.2.6.4.2.4. By Service Model
 - 9.2.6.4.2.5. By Application
- 9.2.6.5. Spain Automotive Cloud Based Solutions Market Outlook
 - 9.2.6.5.1. Market Size & Forecast
 - 9.2.6.5.1.1. By Value
 - 9.2.6.5.2. Market Share & Forecast
 - 9.2.6.5.2.1. By Vehicle Type
 - 9.2.6.5.2.2. By Electric Vehicle Type
 - 9.2.6.5.2.3. By Deployment Type
 - 9.2.6.5.2.4. By Service Model
 - 9.2.6.5.2.5. By Application

10. SOUTH AMERICA AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Vehicle Type
 - 10.2.2. By Electric Vehicle Type
 - 10.2.3. By Deployment Type
 - 10.2.4. By Service Model
 - 10.2.5. By Application
 - 10.2.6. By Country
 - 10.2.6.1. Brazil Automotive Cloud Based Solutions Market Outlook
 - 10.2.6.1.1. Market Size & Forecast
 - 10.2.6.1.1.1. By Value
 - 10.2.6.1.2. Market Share & Forecast

- 10.2.6.1.2.1. By Vehicle Type
- 10.2.6.1.2.2. By Electric Vehicle Type
- 10.2.6.1.2.3. By Deployment Type
- 10.2.6.1.2.4. By Service Model
- 10.2.6.1.2.5. By Application
- 10.2.6.2. Colombia Automotive Cloud Based Solutions Market Outlook
 - 10.2.6.2.1. Market Size & Forecast
 - 10.2.6.2.1.1. By Value
 - 10.2.6.2.2. Market Share & Forecast
 - 10.2.6.2.2.1. By Vehicle Type
 - 10.2.6.2.2.2. By Electric Vehicle Type
 - 10.2.6.2.2.3. By Deployment Type
 - 10.2.6.2.2.4. By Service Model
 - 10.2.6.2.2.5. By Application
- 10.2.6.3. Argentina Automotive Cloud Based Solutions Market Outlook
 - 10.2.6.3.1. Market Size & Forecast
 - 10.2.6.3.1.1. By Value
 - 10.2.6.3.2. Market Share & Forecast
 - 10.2.6.3.2.1. By Vehicle Type
 - 10.2.6.3.2.2. By Electric Vehicle Type
 - 10.2.6.3.2.3. By Deployment Type
 - 10.2.6.3.2.4. By Service Model
 - 10.2.6.3.2.5. By Application

11. MIDDLE EAST & AFRICA AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Vehicle Type
 - 11.2.2. By Electric Vehicle Type
 - 11.2.3. By Deployment Type
 - 11.2.4. By Service Model
 - 11.2.5. By Application
 - 11.2.6. By Country
 - 11.2.6.1. Saudi Arabia Automotive Cloud Based Solutions Market Outlook
 - 11.2.6.1.1. Market Size & Forecast
 - 11.2.6.1.1.1. By Value

- 11.2.6.1.2. Market Share & Forecast
 - 11.2.6.1.2.1. By Vehicle Type
 - 11.2.6.1.2.2. By Electric Vehicle Type
 - 11.2.6.1.2.3. By Deployment Type
 - 11.2.6.1.2.4. By Service Model
 - 11.2.6.1.2.5. By Application
- 11.2.6.2. UAE Automotive Cloud Based Solutions Market Outlook
 - 11.2.6.2.1. Market Size & Forecast
 - 11.2.6.2.1.1. By Value
 - 11.2.6.2.2. Market Share & Forecast
 - 11.2.6.2.2.1. By Vehicle Type
 - 11.2.6.2.2.2. By Electric Vehicle Type
 - 11.2.6.2.2.3. By Deployment Type
 - 11.2.6.2.2.4. By Service Model
 - 11.2.6.2.2.5. By Application
- 11.2.6.3. South Africa Automotive Cloud Based Solutions Market Outlook
 - 11.2.6.3.1. Market Size & Forecast
 - 11.2.6.3.1.1. By Value
 - 11.2.6.3.2. Market Share & Forecast
 - 11.2.6.3.2.1. By Vehicle Type
 - 11.2.6.3.2.2. By Electric Vehicle Type
 - 11.2.6.3.2.3. By Deployment Type
 - 11.2.6.3.2.4. By Service Model
 - 11.2.6.3.2.5. By Application

12. ASIA PACIFIC AUTOMOTIVE CLOUD BASED SOLUTIONS MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Vehicle Type
 - 12.1.2. By Electric Vehicle Type
 - 12.1.3. By Deployment Type
 - 12.1.4. By Service Model
 - 12.1.5. By Application
 - 12.1.6. By Country
 - 12.1.6.1. China Automotive Cloud Based Solutions Market Outlook
 - 12.1.6.1.1. Market Size & Forecast
 - 12.1.6.1.1.1. By Value
 - 12.1.6.1.2. Market Share & Forecast
 - 12.1.6.1.2.1. By Vehicle Type

- 12.1.6.1.2.2. By Electric Vehicle Type
- 12.1.6.1.2.3. By Deployment Type
- 12.1.6.1.2.4. By Service Model
- 12.1.6.1.2.5. By Application
- 12.1.6.2. India Automotive Cloud Based Solutions Market Outlook
 - 12.1.6.2.1. Market Size & Forecast
 - 12.1.6.2.1.1. By Value
 - 12.1.6.2.2. Market Share & Forecast
 - 12.1.6.2.2.1. By Vehicle Type
 - 12.1.6.2.2.2. By Electric Vehicle Type
 - 12.1.6.2.2.3. By Deployment Type
 - 12.1.6.2.2.4. By Service Model
 - 12.1.6.2.2.5. By Application
- 12.1.6.3. Japan Automotive Cloud Based Solutions Market Outlook
 - 12.1.6.3.1. Market Size & Forecast
 - 12.1.6.3.1.1. By Value
 - 12.1.6.3.2. Market Share & Forecast
 - 12.1.6.3.2.1. By Vehicle Type
 - 12.1.6.3.2.2. By Electric Vehicle Type
 - 12.1.6.3.2.3. By Deployment Type
 - 12.1.6.3.2.4. By Service Model
 - 12.1.6.3.2.5. By Application
- 12.1.6.4. South Korea Automotive Cloud Based Solutions Market Outlook
 - 12.1.6.4.1. Market Size & Forecast
 - 12.1.6.4.1.1. By Value
 - 12.1.6.4.2. Market Share & Forecast
 - 12.1.6.4.2.1. By Vehicle Type
 - 12.1.6.4.2.2. By Electric Vehicle Type
 - 12.1.6.4.2.3. By Deployment Type
 - 12.1.6.4.2.4. By Service Model
 - 12.1.6.4.2.5. By Application
- 12.1.6.5. Australia Automotive Cloud Based Solutions Market Outlook
 - 12.1.6.5.1. Market Size & Forecast
 - 12.1.6.5.1.1. By Value
 - 12.1.6.5.2. Market Share & Forecast
 - 12.1.6.5.2.1. By Vehicle Type
 - 12.1.6.5.2.2. By Electric Vehicle Type
 - 12.1.6.5.2.3. By Deployment Type
 - 12.1.6.5.2.4. By Service Model

12.1.6.5.2.5. By Application

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. Microsoft Corporation

15.1.1. Business Overview

15.1.2. Key Revenue and Financials

15.1.3. Recent Developments

15.1.4. Key Personnel

15.1.5. Key Product/Services Offered

15.2. IBM Corporation

15.2.1. Business Overview

15.2.2. Key Revenue and Financials

15.2.3. Recent Developments

15.2.4. Key Personnel

15.2.5. Key Product/Services Offered

15.3. Amazon Web Services, Inc.

15.3.1. Business Overview

15.3.2. Key Revenue and Financials

15.3.3. Recent Developments

15.3.4. Key Personnel

15.3.5. Key Product/Services Offered

15.4. Google LLC

15.4.1. Business Overview

15.4.2. Key Revenue and Financials

15.4.3. Recent Developments

15.4.4. Key Personnel

15.4.5. Key Product/Services Offered

15.5. Cisco Systems, Inc.

15.5.1. Business Overview

15.5.2. Key Revenue and Financials

15.5.3. Recent Developments

- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services Offered
- 15.6. Oracle Corporation
 - 15.6.1. Business Overview
 - 15.6.2. Key Revenue and Financials
 - 15.6.3. Recent Developments
 - 15.6.4. Key Personnel
 - 15.6.5. Key Product/Services Offered
- 15.7. Intel Corporation
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. Verizon Communications Inc.
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Siemens AG
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. Robert Bosch GmbH
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered
- 15.11. Continental AG
 - 15.11.1. Business Overview
 - 15.11.2. Key Revenue and Financials
 - 15.11.3. Recent Developments
 - 15.11.4. Key Personnel
 - 15.11.5. Key Product/Services Offered
- 15.12. Harman International Industries, Inc.

- 15.12.1. Business Overview
- 15.12.2. Key Revenue and Financials
- 15.12.3. Recent Developments
- 15.12.4. Key Personnel
- 15.12.5. Key Product/Services Offered
- 15.13. Delphi Technologies (Aptiv PLC)
 - 15.13.1. Business Overview
 - 15.13.2. Key Revenue and Financials
 - 15.13.3. Recent Developments
 - 15.13.4. Key Personnel
 - 15.13.5. Key Product/Services Offered
- 15.14. TomTom N.V.
 - 15.14.1. Business Overview
 - 15.14.2. Key Revenue and Financials
 - 15.14.3. Recent Developments
 - 15.14.4. Key Personnel
 - 15.14.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

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