

# **Automatic Train Control Market by Automation (GoA 1, GoA 2, GoA 3, GoA 4), Service (Consulting, Integration & Deployment), Train Type (Urban (Metro & High-Speed Trains), Mainline (Passenger & Freight Trains)), and Region - Global Forecast to 2023**

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## **Abstracts**

Global automatic train control (ATC) market size to grow at a CAGR of 10.3% during the forecast period

The global ATC market size is expected to grow from USD 2.2 billion in 2018 to USD 3.6 billion by 2023, at a Compound Annual Growth Rate (CAGR) of 10.3% during the forecast period. Major growth factors for the market include high population growth and hyper-urbanization, technological advancements targeting passenger convenience, and emerging trend of smart cities. However, high cost of deployment and operational inefficiency could restrain the market growth.

GoA 4 to grow at the highest CAGR during forecast period

GoA 4 is also termed as an Unattended Train Operation (UTO) system. Therefore, the safe departure of the train from a station, including door closing, must be done automatically. The UTO system can detect and manage the hazardous conditions and emergency conditions by introducing guideway intrusion detection, platform and onboard CCTV, etc. UTO is only possible for systems with GoA 4; however, in practice, not all GoA 4 systems are operated unattended. Based on the observations of automated metros, most of the GoA 4 systems are operated with attendants onboard every train. Hence, GoA 4 systems can be operated either unattended or with an attendant onboard.

Asia Pacific (APAC) to grow at the highest growth rate during the forecast period

APAC is estimated to be the fastest-growing region in the ATC market by region, due to the increase in the adoption of new technologies, higher investments for digital transformation, and increasing GDP in APAC countries. Singapore, China, Korea, Hong Kong, and India are rapidly investing in technological transformation. Additionally, with the rapid deployment of metros in Asian cities, the deployment of ATC solutions is on the rise. The high population growth rate in the region has intensified the need for transformation and expansion of the existing rail infrastructure. The presence of untapped potential markets, high penetration of advanced technologies, growing freight use in various industries, and economic developments and government regulations are expected to drive the ATC market growth.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the IoT platform marketplace.

The following list provides the breakup of primary respondents' profiles:

By company type: Tier 1: 35%, Tier 2: 45%, and Tier 3: 20%

By designation: C level Executives: 35%, Director Level: 25%, and Others: 40%

By region: North America: 45%, Europe: 20%, APAC: 30%, and Rest of the World: 5%

Major vendors in the global ATC market include General Electric Company (GE), Toshiba Corporation (Toshiba), Alstom SA (Alstom), Tech Mahindra, WSP, Cisco Systems (Cisco), Hitachi, Bombardier, Siemens, Thales, Kyosan Electric Manufacturing Ltd (Kyosan), Mermec, Advantech, Mipro, and ADLINK Technology. These players have adopted product launches and partnership strategies to sustain their position in the global ATC market.

Research Coverage:

The report includes an in-depth competitive analysis of the key players in the ATC market, along with their company profiles, recent developments, and key market

strategies. The report segments the global ATC market by platform automation, train, services, and region.

#### Key Benefits of Buying the Report:

The report would help the market leaders/new entrants in the ATC market with the information on the closest approximations of the revenue numbers for the overall ATC market and subsegments. The report would also help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on the key market drivers, restraints, challenges, and opportunities.

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