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## **PART 1: INDUSTRY OVERVIEW, TRENDS AND OUTLOOK**

Part 1 will provide an overview of the AFC systems in around 115 cities, market size and outlook, projections, impact of Covid-19 on the AFC segment, and plans of cities/transit agencies to deploy advanced fare collection systems including account-based ticketing (ABT) and open loop systems. It will also discuss key emerging trends and recent developments as well as highlight the next-gen technologies.

### **1.1 Current Status and Market Size**

- 1.1.1 Overview of AFC systems
- 1.1.2 Key emerging trends and outlook for the next decade
- 1.1.3 Trends in ridership
- 1.1.4 Impact of AFC systems on ridership
- 1.1.5 Market Size of AFC segment
- 1.1.6 AFC Market Size by sub-segments
- 1.1.7 Integration and interoperability
- 1.1.8 Standards and certifications
- 1.1.9 Account-based ticketing (ABT): Size and key case studies
- 1.1.10 EMV payments in transit: Size and key case studies
- 1.1.11 Mobile ticketing (apps and wallets): Size and key case studies
- 1.1.12 Role of ABT in Mobility-as-a-Service
- 1.1.13 Key deployments of MaaS

### **1.2 Impact of COVID-19 on Transit Ticketing for Public Transport**

- 1.2.1 Impact of COVID-19 on ridership and fare revenue
- 1.2.2 Impact on market size and growth of AFC
- 1.2.3 Spotlight on contactless payments
- 1.2.4 Impact on fare media, growth of contactless payment
- 1.2.5 Key deployments, case studies and new technologies during COVID-19
- 1.2.6 Key plans announced to deploy advanced fare systems during COVID-19

### **1.3 Recent Developments (12 months)**

- 1.3.1 Recent announcements
- 1.3.2 Recent contracts awarded
- 1.3.3 Recent launches
- 1.3.4 Recent pilot projects
- 1.3.5 Open tenders

- 1.3.6 Recent collaborations
- 1.3.7 New and recent technologies announced

### **1.4 Outlook and Opportunities**

- 1.4.1 Key growth drivers
- 1.4.2 Growth in AFC market (by sub-segment) by 2026
- 1.4.3 Future outlook and market opportunities
- 1.4.4 Expected network addition
- 1.4.5 Plans of transit agencies for deployment of advanced fare media, system upgrades and modernisation
- 1.4.6 Year-wise deployment of advanced fare media (by 2026)
- 1.4.7 Plans for fare integration and interoperability
- 1.4.8 Outlook for mobile ticketing and digital wallets
- 1.4.9 Outlook for ABT and open payment systems
- 1.4.10 Next-gen ticketing: New technologies
- 1.4.11 Use of data for seamless travel
- 1.4.12 Smart cities and smart ticketing
- 1.4.13 Key risks and challenges

## **PART 2: INDUSTRY ANALYSIS**

Part 2 will provide an analysis of the AFC market by fare media as well as integration and interoperability. It will also highlight regional trends and opportunities as well as discuss the competitive landscape and profile key players in the industry.

### **2.1 Analysis by Fare Media: Current Status and Future Plans**

- 2.1.1 Overview of fare media
- 2.1.2 Paper tickets, magnetic strip tickets and contact-based smartcards
- 2.1.3 RFID tokens
- 2.1.4 Contactless smartcards
- 2.1.5 Bank cards
- 2.1.6 Mobile ticketing
- 2.1.7 Other fare media
- 2.1.8 Comparative analysis of fare media

### **2.2 Analysis of Integration and Interoperability**

- 2.2.1 Integration and interoperability
- 2.2.2 Key policies supporting integration

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- 2.2.3 Ticketing for single mode
  - 2.2.4 Ticketing for multiple modes, single operator
  - 2.2.5 Multi-modal and multi-operator ticketing
  - 2.2.6 Regional integrated ticketing systems
  - 2.2.7 Nation-wide systems
  - 2.2.8 Partnerships with financial services companies
  - 2.2.9 Integration with non-transit services
- Planned level of integration (across modes, city-wide, national, etc.)
  - Additional information

## 2.3 Key Players

- 2.3.1 Competitive landscape
- 2.3.2 Profiles of key players
- 2.3.3 Industry outlook

## Countries covered in the database

- Australia
- Azerbaijan
- Bangladesh
- Bhutan
- Cambodia
- China
- Hong Kong Special Administrative Region
- India
- Indonesia
- Japan
- Kazakhstan
- Laos
- Macao Special Administrative Region
- Malaysia
- Mongolia
- New Zealand
- Pakistan
- Philippines
- Singapore
- South Korea
- Sri Lanka
- Taiwan
- Thailand
- Uzbekistan
- Vietnam

## PART 3: AROUND 115 CITY PROFILES (MS EXCEL DATABASE)

Part 3 of the report will provide detailed information on over 115 cities in the region. Each city profile will provide information on:

- Key players (operators and developers)
- Modes operated in the city
- Ridership for each mode
- Current fleet size and stations
- Existing fare media and technology [contactless smartcards, RFID-tokens, NFC-enabled devices (excluding smartphones), paper tickets, magnetic stripe tickets, metal tokens, contact-based smartcards, bank/EMV cards and mobile ticketing (App-/ QR code-/ NFC-based/digital wallets)]
- Current ticketing infrastructure
- Vendors/suppliers of ticketing infrastructure
- Account-based ticketing (ABT)
- Mobility-as-a-Service (MaaS)
- Existing level of fare integration (across modes, city-wide, regional, national, with retail, with parking, etc.)
- Planned public transport network (lengths, stations/stops, rolling stock, and commencement of operations)
- New fare media planned
- Plans to deploy ABT
- ABT vendors
- Key contract awards
- Contract values
- Timelines and AFC implementation schedules