

# Table of Contents (Draft)

---

## PART 1: INDUSTRY OVERVIEW, TRENDS AND OUTLOOK

Part 1 will provide an overview of the AFC systems in 500 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 in 500 Cities
- 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 (data and statistics)
- 1.1.5 Market size of AFC segment
- 1.1.6 Market size by sub-segments (contactless smartcards, mobile ticketing, front-end hardware, back-end, service and maintenance)
- 1.1.7 AFC market size by region (North America, Latin America, Asia Pacific, Europe, Middle East, Africa)
- 1.1.8 Integration and interoperability
- 1.1.9 Standards and certifications
- 1.1.10 Account-based ticketing (ABT): size and key case studies
- 1.1.11 EMV payments in transit: size and key case studies
- 1.1.12 Mobile ticketing (apps and wallets): size and key case studies
- 1.1.13 Role of ABT in Mobility-as-a-Service (MaaS)
- 1.1.14 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 payments
- 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 (by 2030)
- 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 Analysing ticketing data: software and services
- 1.4.13 Smart cities and smart ticketing
- 1.4.14 Blockchain for transit ticketing
- 1.4.15 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-stripe 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: Current Status and Future Plans

- 2.2.1 Integration and interoperability
- 2.2.2 Key policies supporting integration
- 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 Cross border ticketing
- 2.2.9 Partnerships with financial services companies
- 2.2.10 Integration with non-transit services

# Table of Contents (Draft)

---

## 2.3 Analysis by Region: Current Status and Future Plans

- 2.3.1 Comparative analysis
- 2.3.2 North America
- 2.3.3 Latin America
- 2.3.4 Asia-Pacific
- 2.3.5 Europe
- 2.3.6 Middle East
- 2.3.7 Africa

## 2.4 Key Players

- 2.4.1 Competitive landscape
- 2.4.2 Profiles of key players
  - AEP Ticketing
  - Conduent Transportation
  - Cubic Transportation Systems
  - Flowbird
  - Genfare
  - Giesecke+Devrient (G+D)
  - Indra Sistemas
  - Infineon Technologies
  - INIT
  - Masabi
  - Mikroelektronika
  - NXP Semiconductors
  - Paragon ID
  - Prodata Mobility Brasil
  - Scheidt & Bachmann
  - Siemens Mobility
  - Thales
  - Ticketer
  - Vix Technology
  - Worldline
- 2.4.3 Industry outlook

## Part 3: 500 City Profiles (MS Excel Database)

Part 3 of the report will provide detailed information on 500 cities across the world. Each city profile will provide information on:

- Population
- Key players (operators and developers)
- Modes operated in the city
- Ridership for each mode
- Impact of Covid-19 on ridership
- Current fleet size and stations
- Existing fare media and technology [contactless smartcards, RFID-tokens, NFC-enabled devices (excluding smart phones), 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, estimated investment, and commencement of operations)
- New fare media planned
- Plans to deploy ABT
- ABT vendors
- Key contract awards
- Contract values
- Timelines and AFC implementation schedules
- Planned level of integration (across modes, city-wide, national, etc.)
- Smart city plans and scope for public transport fare system
- Additional information

## Countries covered in the database

### North America

- Canada
- United States

### Latin America

- Argentina
- Bolivia
- Brazil
- Chile
- Colombia
- Costa Rica
- Cuba
- Dominican Republic
- Ecuador
- French Guiana
- Guatemala
- Mexico
- Panama
- Paraguay
- Peru
- Venezuela

# Table of Contents (Draft)

---

## Asia Pacific

- Armenia
- Australia
- Bangladesh
- Cambodia
- China
- India
- Indonesia
- Japan
- Kazakhstan
- Laos
- Malaysia
- Mongolia
- Myanmar
- New Zealand
- Pakistan
- Philippines
- Singapore
- South Korea
- Sri Lanka
- Taiwan
- Thailand
- Uzbekistan
- Vietnam

## Europe

- Austria
- Belarus
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- England
- Estonia
- Finland
- France
- Georgia
- Germany
- Greece
- Hungary
- Iceland
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg

- Macedonia
- Netherlands
- Northern Ireland
- Norway
- Poland
- Portugal
- Romania
- Russia
- Scotland
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- Turkey
- Ukraine
- Wales

## Middle East and Africa

- Algeria
- Bahrain
- Cameroon
- Egypt
- Ethiopia
- Ghana
- Iran
- Iraq
- Israel
- Jordan
- Kenya
- Kuwait
- Lebanon
- Libya
- Mauritius
- Morocco
- Nigeria
- Oman
- Qatar
- Rwanda
- Saudi Arabia
- Senegal
- Sierra Leone
- South Africa
- Tanzania
- Tunisia
- UAE