

ATLAS[®] Ops Fare Collection

A smart connected mobility solution



ATLAS® Ops

Mobility is at the heart of Smart Cities

With the ATLAS® Ops Fare Collection from Conduent Transportation, cities can offer increased intelligent mobility services to its citizens - revolutionizing the transit networks and operations.

Mobility account: creating a new user experience

With the ATLAS® Ops Fare Collection from Conduent Transportation, every traveler has a centralized and secure mobility account. Online or from a smartphone, travelers can access accounts to prepare their itinerary, buy tickets or subscriptions, or receive real-time travel updates. Trip planning becomes a breeze now that travelers have single-point access to all their mobility services, no longer needing to juggle between different systems to organize a multi-modal journey. Travelers' accounts are billed automatically, simplifying the travel experience for citizens.

Integration of partners: an open mobility offer

Thanks to ATLAS® Ops, cities can enhance traveling options in their regions, integrating the API's of multiple mobility providers into a cohesive platform.

The open architecture of the ATLAS® Ops solution easily allows the transit agencies to facilitate the exchange of information and integration between partners. This mobility solution will be able to extend to new public transit networks or to alternative modes of travel such as sharing services (i.e., car-pooling, car-sharing, self-service bike-sharing, etc.).

Account-Based Ticketing

ATLAS® Ops is a hybrid-ticketing solution that combines two modes fare media options:

- **Media Based Ticketing** (traditional ticketing): the traveler has access to a platform in which they can review their ticket purchases (the data recorded by ticketing equipment during sales, validation, and control operations. This data is also stored in the back office.
- **Account-Based Ticketing** (open standards): the tickets purchased by the traveler reside in the back office and are attached to their mobility account. During sales, validation, or control operations, ticketing equipment accesses this data online. The platform used by the traveler serves only as an identifier. The Account-Based Ticketing architecture makes it possible to use the same contactless card to access multiple services: transportation, shows, sporting events, etc. Navigating through the city becomes easier and smarter, allowing citizens to travel more freely.

A Complete Solution

Thanks to ATLAS® Ops add-ons, operators are expanding and improving their transit offer to provide more data and passenger information.

- **ATLAS® Fleet & Info** ensures a centralized and efficient management of the fleet and passenger information for superior quality of service.
- **ATLAS® Mobility Analytics Platform** makes it possible to analyze big data to better understand the uses of services to optimize the functioning of transportation networks (schedules, lines, frequencies, quality of service).
- **ATLAS® Mobility Companion Platform** aggregates multiple mobility service providers. It has a powerful real-time route calculator to accompany the traveler throughout his journey.



Fare Collection Modernization

With ATLAS® Ops from Conduent Transportation, network managers are modernizing their ticketing. They adapt to users' digital habits by offering more connected services. ATLAS® Ops also provides the necessary levels of operational security.

Digitization, dematerialization: an adaptation to digital uses

The ATLAS® Ops Fare Collection enables cities to offer transit ticketing payment methods that are in sync with users' digital tools and uses:

- Smartphone validation via a dedicated mobile application (NFC) or QR code reading
- Validation by contactless bank card
- Use of a multi-service contactless card (city cards)

With ATLAS® Ops, cities are also modernizing their distribution channels for a better customer experience.

Hybrid fare collection: a gradual transition

To offer these new uses, the transit networks must embrace and deploy an Account-Based Ticketing architecture.

ATLAS® Ops offers a hybrid architecture that combines Account-Based Ticketing with Media-Based Ticketing already in place in a majority of solutions. The transit networks can begin their transition to Account-Based Ticketing at their own pace, enriching their services and considering a gradual changeover while maintaining the two modes of management in parallel.

Operational security: revenue protection

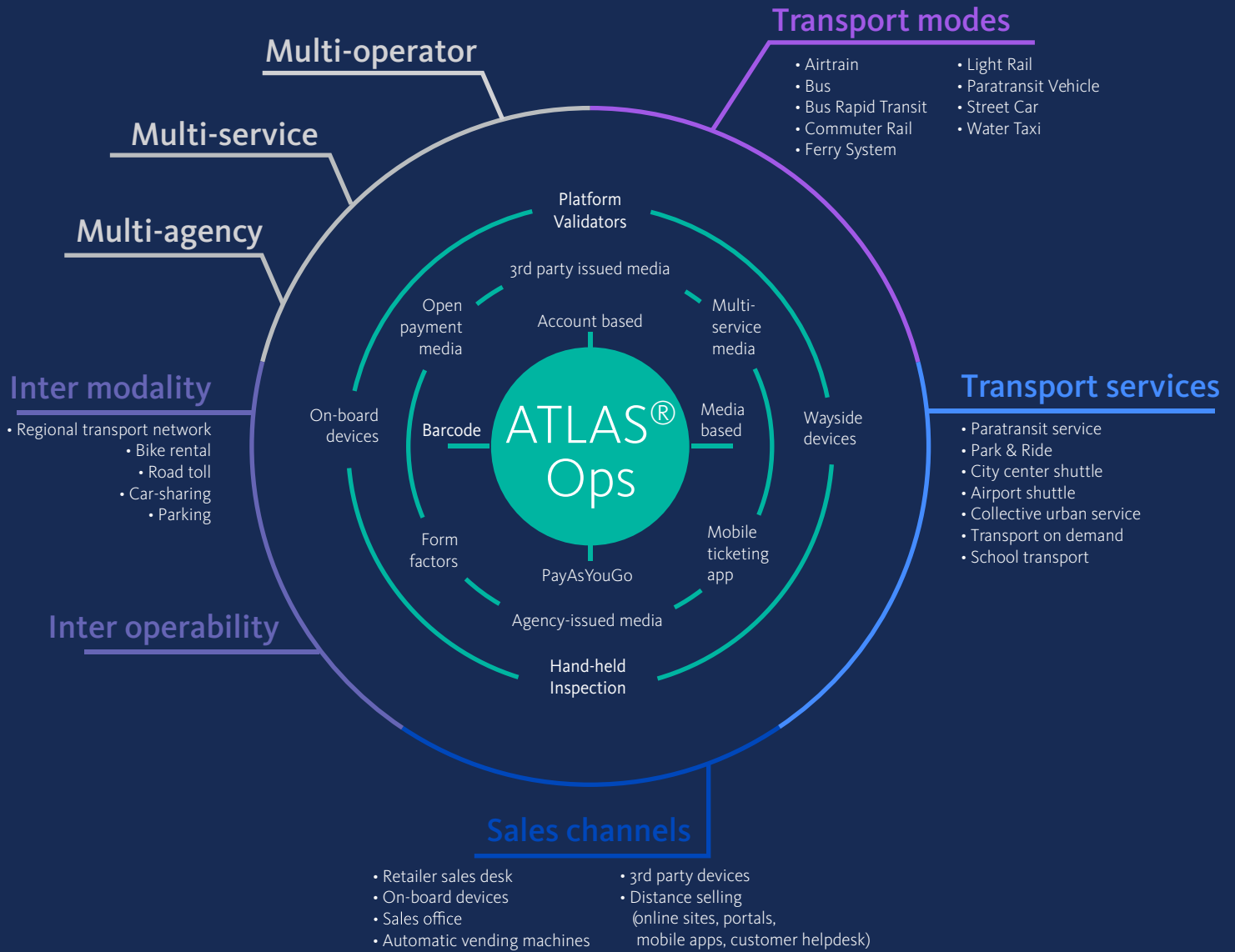
ATLAS® Ops implements security and risk management mechanisms adapted to each type of support / protocol such as for smartphone (NFC) or bank cards (EMV). These security levels can be set to protect network revenue and effectively fight fraud.

In addition, the storage of data in ATLAS® Ops is completely secure. Transmission networks can rely on RGPD and PCI-DSS compliance. We guarantee users the protection of their data.

Connected Equipment

The ATLAS® Ops supports a complete range of equipment covering all needs: gates, platform and on-board validators, TVM and sales stations, control equipment; certified (CEN TS16794 and PCI-PTS) in addition to the standard protocols used.

These devices are connected to the back office, allowing remote and centralized supervision as well as easy maintenance.



Built on a History of Proven Success

With Conduent Transportation's many years of expertise in the design and deployment of multi-modal ticketing system, the ATLAS® Ops solution is the new evolution of that success. It builds on the fundamentals that drive the success of ATLAS® Ops Fare Collection in more than 400 public transit networks of all sizes around the world.

Equipment suitable for a wide range of media

ATLAS® solutions manage a wide variety of types of media with the same validation equipment: contactless bank card, e-ticket / QR code, smartphone (NFC), mobile application, etc. Transit networks can adapt to users' preferences by launching innovative offers without having to multiply the types of equipment.

ATLAS® Ops Fare Collection equipment is upgradeable and can be updated to interface with other types of equipment. With the Account-Based Ticketing architecture, the ATLAS® Ops solution can also integrate third-party solutions. Conduent Transportation is indeed a major contributor to the different standards groups for contactless technologies.

Interoperability

ATLAS® Ops is in-line with Conduent Transportation ticketing systems. Designed to facilitate travel with the same support on different networks, ATLAS® Ops is multi-operator, multi-network, multimodal, and interoperable.

The ATLAS® Fare Collection solutions make it possible to use a wide variety of interurban and regional urban modes of transit - bus, train, metro, boats, taxi – all with the same ticket.

All Sizes of Networks: from urban to regional

ATLAS® Fare Collection solutions are made for networks of all sizes, and has the ability to equip the transit networks of small towns as well as those of very large cities.

The open architecture of ATLAS® solutions allows the ability to manage ticket collections from several operators. Each network has a compartmentalized space to manage its own activity (Business Rules, single-network paths). Operators define information sharing rules to allow multi-network paths with a fair distribution of revenue.

Fare Rule flexibility: marketing of transit options

ATLAS® Fare Collection offers a range of fare rule parameterization: O/D pricing, zonal, special service routes, transit purse, peak/ off-peak, check-in / check-out, combined parking pricing, calendar / time sensitive fare and post-pay options.

Transit networks have the flexibility to deploy incentive policies for public transportation.

The ATLAS® Ops Fare Collection solution goes even further. For each trip, the system applies the most advantageous rate for the traveler (user profile, usage limit, loyalty benefits) over the period chosen by the network.

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