

ATLAS® Fleet & Info

Centralized Fleet Management and Passenger Information



ATLAS® Fleet & Info offers public transport operators a centralized solution for tracking vehicle fleets and keeping passengers informed. ATLAS® Fleet & Info can either be deployed separately or built into the infrastructure of an ATLAS® Ticketing system, with which it will share data and resources. Operators can thus capitalize on their investments in ticketing systems and improve the quality of service they provide. A better solution than infrared detectors.

ATLAS® Fleet & Info brings a range of new features to the Transit offering from Conduent Transportation. The Fleet module monitors buses, trams, and trains in real time in order to optimize service quality. Control room operators can track the precise position of each vehicle on the network. Alarms can be configured to report vehicles that are ahead of or behind schedule or diverted from their usual routes. Operators can communicate with drivers by voice or text message, to assess the situation and take appropriate action in the event of disruption.

Precision and Innovation to Enhance Convenience for Users

The Info module enhances convenience for users by providing them with precise waiting times at stops and stations. It recalculates arrival times using an innovative algorithm that takes into account the vehicle's position, the scheduled timetable, intervals between vehicles, and journey records. Data to be disseminated are produced in SIRI format, compatible with bus stop display panels, on-line applications, tablets, and smartphones.

Sharing Resources with the Ticketing System

ATLAS® Fleet & Info performs its calculations centrally using the coordinates transmitted at regular intervals by vehicles via mobile telecommunication networks. If vehicles have ticketing consoles fitted with GPS beacons and connected to GPRS/3G networks, no other on-board devices are required to run ATLAS® Fleet & Info. Moreover, certain other reference data, such as network topology and timetabling, can be shared with an ATLAS® Ticketing system if one is fitted, and does not need to be re-entered.



Intuitive Ergonomics

With the Fleet module, operators have a choice of several display modes for tracking the position and performance of vehicles: an interactive map of the network, a specific mimic diagram for each line, or a display panel. Colors indicating whether each vehicle is on time, ahead of, or behind schedule give a clear picture of the situation and enable operators to assess service quality instantaneously. Events occurring on the network can also be re-run.

Open, Multi-Operator

Environment ATLAS® Fleet & Info runs on dedicated servers that can be installed independently or embedded into the architecture of an ATLAS® Ticketing system built using open standards. ATLAS® Fleet & Info also adapts to multi-operator environments: it can display either a whole network or just part of it, since it manages rights in the same way as the ATLAS® Ticketing system.

Proven, Robust Technology

Base ATLAS® Fleet & Info benefits fully from the robust ATLAS® technologies, which include secure communication protocols and Oracle databases. ATLAS® Fleet & Info users and administrators will discover system administration tools, database systems, and reporting and analysis utilities that have been tried and tested in the ticketing world.

Data Mining

The ATLAS® data mining application, a Conduent Transportation innovation, carries out detailed analyses of information obtained from different ATLAS® systems. It helps operators gain a greater overall understanding of the network and can simulate the impact of potential changes – increasing service frequency or re-routing a line, for instance – on operations. ATLAS® users therefore hold the keys to optimizing their public transport offering. Using ATLAS® Fleet & Info data, the mining application can simulate service quality (punctuality, delays, etc.) and hence provide more accurate estimates of arrival times. When both ATLAS® Ticketing and Fleet & Info are installed, the application can draw up further correlations with users' profiles, model their behavior, or predict variations in demand depending on quality of service.

Highly Flexible Implementation

Thanks to the ATLAS® architecture, installation of the different systems is highly flexible. ATLAS® Fleet & Info can be installed alone and operate autonomously. But it can also be embedded in an ATLAS® Ticketing system either when the latter is initially deployed or during a subsequent extension. Similarly, an ATLAS® Ticketing solution can be fitted seamlessly alongside an existing ATLAS® Fleet & Info system.

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