

Altair SmartCore™ Optimizes Fleet Management at Boyacá



Boyacá has been handling the daily delivery of newspapers and magazines in Spain for more than 35 years. Fulfillment of time schedules is essential for customer satisfaction and late deliveries can result in additional costs.

Boyacá needed to have direct real-time information on arrival and departure times at each hub of the distribution chain in order to control costs with the lowest possible investment. Several hundred trucks are used for delivery every day.

Boyacá worked with Altair SmartCore to improve their distribution chain. The installation of an RFID clock at each node and the distribution a personal RFID card to each driver, was the optimal solution to collect the information and integrate it into the client's own SQL Database at the lowest cost using the Altair SmartCore Platform. The exact arrival and departure times at each node – including the difference between scheduled and actual delivery times - are received and stored in real time.

Boyacá worked with a System Integrator (Wairbut) and Altair SmartCore to develop the end to end solution in less than 3 months. The solution included the development of a customized IoT device integrated with Altair SmartCore IoT Platform to collect all the data from RFID cards, process the data, and integrate it with the existing IT Systems.



Industry
Fleet Management • Region, Europe

Challenge
Boyacá, a 35-year company specialized in the delivery of newspapers, has been challenged with the need to increase drivers' productivity and decrease delivery cost.

Altair Solution
Boyacá worked with Altair SmartCore to gain real-time information with:

- RFID clock at each node of distribution chain
- RFID card for each driver
- Altair SmartCore platform integrated with client database
- Arrival & departure times received in real-time

Benefits

- No more data discrepancies
- Quality control system for service timeliness
- Time saved with automated processes

The Technology

Boyacá was looking for a simple and affordable solution to track the arrival of their delivery trucks. Altair SmartCore and Wairbut designed and manufactured a specific hardware, the 3Gclock, to provide each truck driver with an ID card (based on RFID Technology). Altair SmartCore deployed the solution at each logistic hub to read and transmit the data to the Corporate IT Systems. The 3G clock includes a keypad as an alternative in case of malfunction of the magnetic cards. It can be used by temporary/seasonal carriers. The device includes a mobile phone technology to send information directly to the server. The Altair SmartCore IoT platform provides integration capabilities, fast development of custom applications, and easy device deployment.

The Team

Their team is composed of more than 3,600 people with 63 logistics platforms that provide services 24/7 and deliver daily to more than 25,000 locations.

“Altair SmartCore was the right technological partner to understand our business needs and implement a cost-effective solution based on IoT. We selected Altair SmartCore because in just 3 months we were able to deploy a complete solution including the hardware and cloud software as a service that could easily integrate with our corporate IT System and scale to new devices”

Rafael Gil,
CIO at Transportes Boyacá.



- READ RFID
- GENERATE TIME STAMP
- 3G CONNECTIVITY



Altair **SmartCore™**

- WEB REPORTS
- DATABASE
- DEVICE MANAGEMENT (monitor, remote, configuration)



 **Boyacá**
IT SYSTEMS

- INTERNAL DATA BASE
- CONTROL OF TIME ENTRY



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