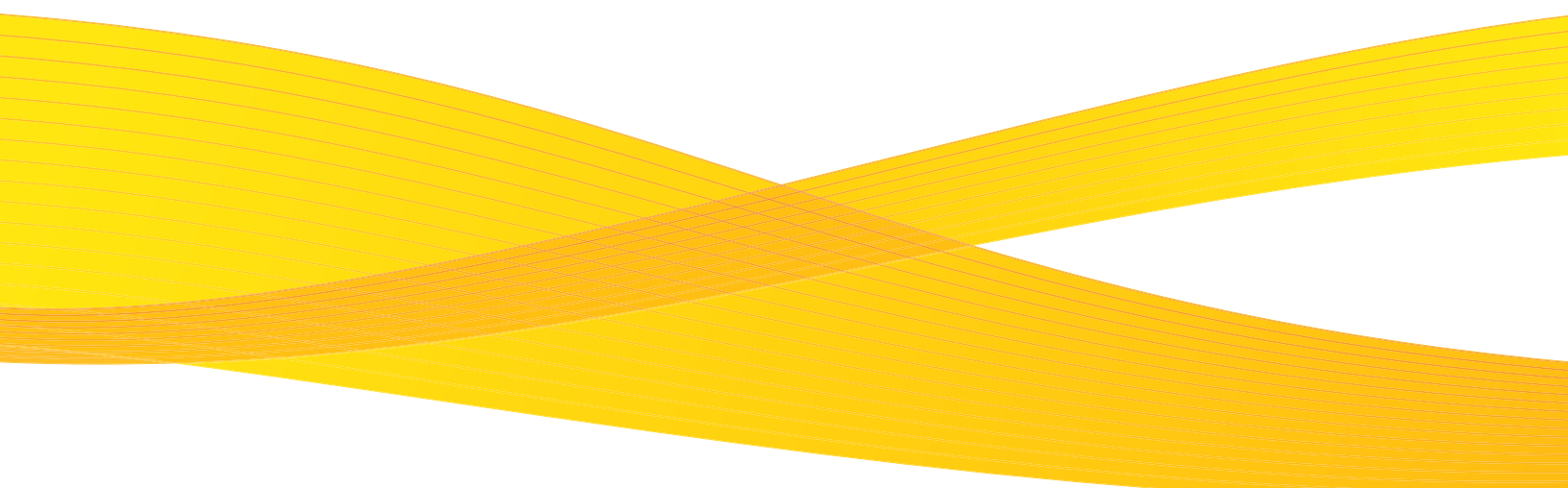


A bus company wanted versatility. We made them card-carrying fans of interoperability.

In Tours, if you're holding a bus ticket,
you're holding a train ticket as well.



Our interoperability solution lets passengers store transport tickets from multiple operators on the same card.

The Challenge

When it decided to change its fare collection system and adopt remote ticketing in 2001, the Tours, France, bus operator wanted its new tickets to be valid on the local train lines as well.

In the vernacular, that's called "interoperability," and it's a much-sought goal by public transit systems around the globe. Interoperability enables users to store transport tickets from various operators – urban and intercity networks and regional train lines – on the same card, which is said to be "interoperable." This single ticket can provide access to several networks, in which case there is an "interoperable contract."

The Solution

Tours was chosen as a testing ground for France's experimental Monéo electronic purse. Since 2000, inhabitants of Tours have used ACS's "Monéo" card to pay for travel in ticket offices and on board buses. All vehicles operating on the city's Blue Line network were equipped with special consoles that accept payment by the Monéo card and allow bus drivers to issue single time-stamped tickets.

Data recorded on the cards comply with the experimental "Intercode" standard. This determines the encoding rules for data and structures that define contracts stored on the cards.

The Results

Interoperability has been a reality in Tours since 2003. Several contracts with multiple operators can now be stored on a single card.

For Tours, interoperability has been made possible with the fare collection system developed by ACS. We enable travelers to use several modes of transport with a single ticket. After being introduced for urban buses and local trains, interoperability is now being extended to intercity bus services (the "Green Line"). Tours became the first French city to become fully interoperable.

Key Statistics

"Blue Line" for Tours Urban Area

- 21 localities served
- 270,000 inhabitants
- 130,000 journeys/day
- 29 lines (including 2 running night services)
- 340 km of lines (including shared sections)

Ticketing Equipment

- 220 consoles
- 350 validators
- 8 portable validators for taxis
- 20 monitoring terminals
- 100 retailer machines
- 9 card customisation machines
- Central management system
- Automatic reloading terminal
- Monéo electronic purse interface



Sector: Public Transportation

Solution: Multi-modal Interoperability

Client: Tours, France

Challenge: Store tickets for various transit operators on the same card

Result: The first city in France to become fully interoperable

Contact Us

Affiliated Computer Services

Solutions France SAS
Rue Claude Chappe – BP 345
07503 Guilherand Granges Cedex
France
Tel: +33 4 75 81 44 44
E-mail: publictransport@acs-inc.com
www.acs-publictransport.com

About ACS

ACS is part of Xerox's \$22 billion global enterprise, with 130,000 employees serving our clients in 160 countries.

You can learn more about us at www.acs-inc.com.

The Bottom Line

A Tours, France, bus operator wanted its new tickets to be valid on the local train lines. We deployed an interoperable solution, which enabled passengers to store transport tickets

from various operators – urban and intercity networks and regional train lines – on the same card. In doing so, we made Tours the first French city to become fully interoperable.



A **XEROX** Company