

# The Emilia-Romagna region wished to interface 10 operators We created the future single ticket

We deployed in Bologna an interoperable system and a ticketing solution compliant with the regional programme.



# We deployed the system and equipped 173 bus lines with vending and validation devices

The Emilia-Romagna region in northern Italy was aiming to link up its 10 public transport operators and thus offer users a single interoperable area. The Bologna public transport company ATC alone accounts for over one-third of the vehicles involved. Its 1,240 buses and trolleybuses operate on a network of 173 urban and intercity lines, serving 1.3 million inhabitants in the region around the regional capital.

## The Challenge

ATC wished to replace its old paper tickets with a new solution that would be compatible with the region's interoperability programme. The future system therefore had to be sufficiently open-ended to issue and accept tickets that could be used on the 10 networks concerned. In particular, this involved adopting the zoning scheme planned at regional level.

At the same time, ATC aimed to maintain its existing fare scale, so that modernising its ticketing system would not entail any increase in costs for users.

## The Solution

We developed and deployed the entire fare collection solution, which was commissioned in early 2010. It comprises a central system, street-level vending machines and on-board validation equipment, all compatible with both contactless and magnetic.

### In a nutshell...

To help position the Emilia-Romagna region as a future interoperable transport area bringing the ten existing operators together, we set up for Bologna a ticketing

The open-ended central system offers the possibility of interfacing with other operators in the framework of the interoperability project. We configured its fare base according to the breakdown of the Bologna network into 50 zones.

We fitted each of the 1,240 buses with a simplified driver's console and one or two mixed validators, which we customised to allow the destination to be entered when a contactless ticket is read.

We introduced the Mi-Muovo contactless card in Bologna. Destined to become the regional transport pass one day, it can load up to four different contracts: a season ticket for a fixed journey or a monthly subscription, and it can be used as a stored-value card.

## The Result

After a 3-month transitional period, ATC finally replaced its old paper tickets with the magnetic, contactless cards, with an equipment customised to fit the regional zoning system and an open-ended, interoperable central system. The fare structure could be maintained and the new Mi Muovo regional contactless card was introduced.



**Sector:** Local Government

**Solution:** Fare Collection

**Client:** Bologna public transport company, ATC

**Challenge:** Modernising the fare collection system in readiness for regional interoperability

**Result:** Introduction of a mixed magnetic and contactless solution with fares based on regional zoning

## Key Figures

### Network

- 1,240 buses
- 173 different lines
- 105 million journeys per year

### Equipment

- 1,240 simplified driver consoles
- 1,800 mixed validators

### Street-level vending and reloading equipment

- 4 automatic magnetic and contactless ticket vending machines
- 13 magnetic and contactless ticket sales terminals
- 100 reloading terminals