

Case for **Leading Smart Cards Producer**

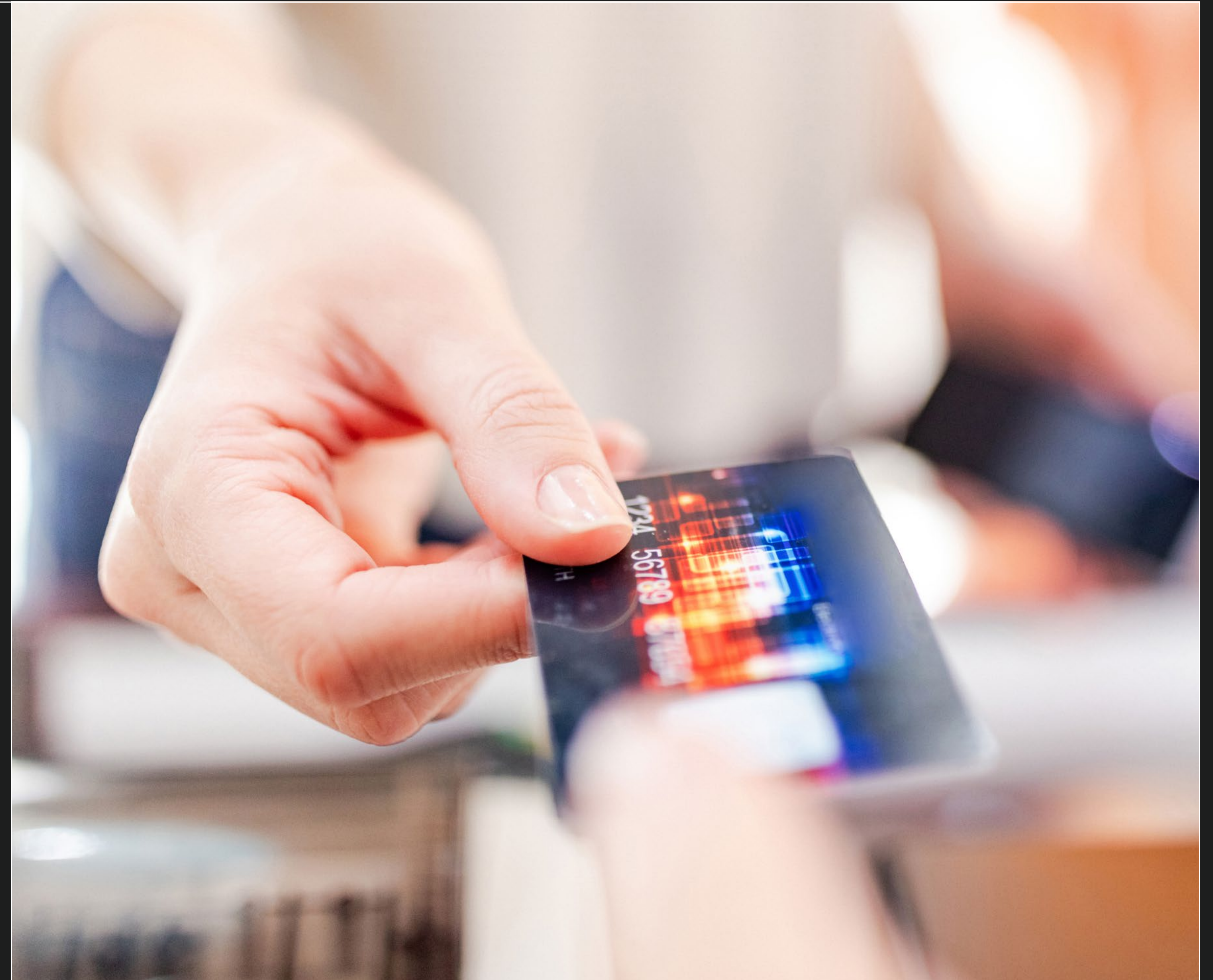
## World-Class Embedded Software for Smart Cards\_

Leading Smart Cards Producer Enables Millions of Daily App Installations  
with SMPP SIM Card Software

Industry: **Software & Hi-Tech**

Location: **France**

Employees: **10,000+**



## Client Background

The client of Infopulse is one of the world's leading Secure Technology and Smart Card production enterprises. The company provides solutions to a vast portfolio of international clients, including banks and financial institutions, manufacturers, mobile operators, governmental organizations, and much more.

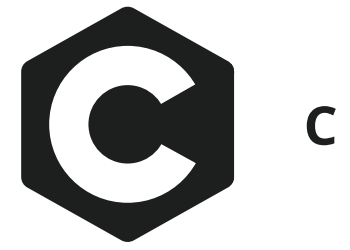
## Business Challenge

- Modern mobile and financial services require smart (SIM) card-side software installation.
- In case of GSM networks, the delivery of SIM card applications is performed over the SMS traffic, standardized in the scope of the SMPP (Short Message Peer-to-Peer) protocol.
- Any massive deployment campaign across all of the cards of a mobile network operator requires a scalable and stable software solution based on the SMPP protocol.
- A secure, cryptographic channel is required according to the industry standards.
- The client of Infopulse needed a solution meeting all of the above requirements to be developed.

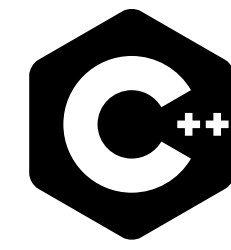
## Solution

- The existing client proprietary SMPP (SMPP33, SMPP34) server was rewritten, enhancing its load-balancing and failover capabilities.
- Open-source implementations of the SMPP protocol were audited in order to use the corresponding experience as lessons learned.

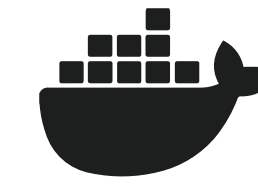
## Technologies



C



C++

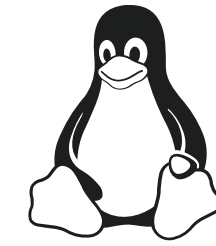


Docker



Boost

**POSIX** POSIX



Linux

**UNIX** Unix



## Business Value

- The client received a significantly optimized, scalable and reliable SMPP-based system for seamless smart card application deployment.
- The cooperation enabled a new nation-wide scale of smart card apps deployment, which was successfully launched in a number of European and LATAM countries: up to 1 Million app installations per day for each country.



## About Infopulse

Infopulse, part of the leading Nordic digital services company Tietoevry, is an international vendor of services in the areas of Software R&D, Application Management, Cloud & IT Operations, and Cybersecurity to SMEs and Fortune 100 companies across the globe. Founded in 1991, the company has a team of over 2,300 professionals and is represented in 7 countries across Europe and the Americas.

Infopulse is trusted by many established brands, such as BICS, Bosch, British American Tobacco, Credit Agricole, Delta Wilmar, ING Bank, Microsoft, Offshore Norge, OLX Group, OTP Bank, SAP, UkrSibbank BNP Paribas Group, Vodafone, Zeppelin Group, and others.

For more information, please visit [www.infopulse.com](http://www.infopulse.com)

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