

Pre-paid Card Service & Online Services Portal



Company: China Telecommunications Corporation (China Telecom)

Location: China



Customer Description

China Telecommunications Corporation (China Telecom) is a state-owned telecom giant based in China, and has been selected into the Top 500 Global Corporations for many years running. China Telecom provides integrated information services including, fixed-line telephone, mobile service, internet connection and applications services. By the end of 2008, China Telecom had 214 million fixed line telephone subscribers, 35.44 million mobile subscribers, and 47.18 million broadband subscribers.

Business Need

In order to expand their telecom value-added services, China Telecom launched the Public Multimedia Prepaid Card Service. The Prepaid Card has the following functions:

1. Access Service: Include both standard and VIP access service.
2. Payment Service: Include online payment, card recharging and transferring to bank card.

Along with the Prepaid Card business, the requirements were to also develop an integrated management system to provide,

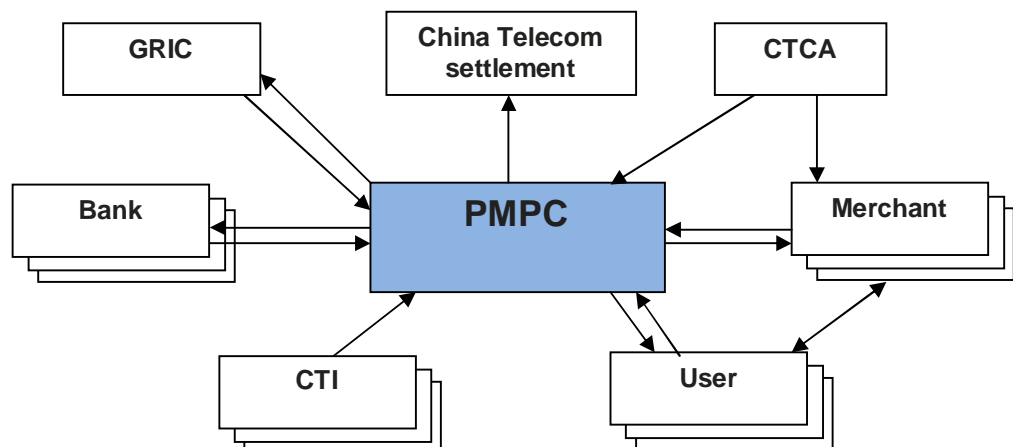
- I Access authentication,
- I Card management,
- I User self-service online portal,
- I Transaction settlement and management.

The expected amount of users of this system was 10 million and the operating scope was required to cover all China's major cities.

Solution Offered

One of the challenges of this project, Public Multimedia Prepaid Card (PMPC), is to interact with many external systems.

The following diagram describes the relationship between PMPC and external systems.



CONTACT US

Office Address

5th Floor, Tower A, Keyuan Mansion,
No.105, Xisanhuan North Road, Haidian District,
Beijing 100048, P.R. China

Ph. No. 86-10-68430981

Fax No. 86-10-68430081

General Information:

info@intechnochina.com

Sales:

sales@intechnochina.com

Careers:

careers@intechnochina.com

Visit Our Website:
www.intechnochina.com

Solution Offered

Security Mechanism of PMPC:

PMPC uses CA certificates issued by CTCA for identity authentication between PMPC and merchant operators and system administrators.

Transactions with the bank, PMPC use CA certificates provided by the banks to establish a secure channel to complete the bank card payment process.

The system incorporates SSL to provide security for communications between Web Client and Web Server.

Through the Secure Transaction Middleware, the trading orders are transferred between Merchants and PMPC's merchant gateway and bank settlement gateway. The secure trading channel is developed based on GSSAPI (General Security Service Application Programming Interface).

Access Service:

PMPC provides a variety of access means such as dial-up, ISDN, ADSL, DDN and GPRS, and also the VISP is allowed. Intechno design a "Pricing Tool" to establish charge rate guidelines for the Access Service.

PMPC Internet Billing System:

The PMPC Internet Billing System for China Telecom provides real-time billing services for all kinds of connected businesses and payment services for real-time online transactions. It provides real-time aggregated certification and billing of large-capacity network users; reliable real-time billing for large-scale network users with dial-up, ISDN, ADSL, DDN, GPRS, etc, for their internet connection usage. It provides multiple kinds of payment services and statistical analysis of connected business data and transaction data.

Payment Service:

Intechno developed Secure Transaction Middleware, Merchant Gateway and Bank Settlement Gateway to support PMPC's payment service.

Secure Transaction Middleware (STM) is deployed on merchant's ICP to establish the connection between Merchant Trading System and PMPC's Merchant Gateway.

Merchant Gateway (MG) is used to connect STM and Web clients and payment sub-system and transfer sub-system.

Bank Settlement Gateway (BSG) is used to connect the transfer sub-system and the bank operation system.

PMPC's Self-service Portal:

PMPC provides three self-service portals, as follows;

User Self-service Portal, users can:

- I Check their balance
- I Recharge their account
- I Search orders and transactions
- I Plus More

Merchant portal, merchants can:

- I Edit their profile
- I Search trading orders and transactions
- I Manage their accounts
- I Handle user's complaint
- I Plus More

PMPC operator's portal, operators can:

- I Create cards
- I Change card status
- I Manage charge rate guidelines
- I Plus More

PMPC provides an executive dashboard and a rich set of reports and metrics to track the operational status of PMPC and help make timely decisions.

CONTACT US

Office Address

5th Floor, Tower A, Keyuan Mansion,
No.105, Xisanhuan North Road, Haidian District,
Beijing 100048, P.R. China

Ph. No. 86-10-68430981

Fax No. 86-10-68430081

General Information:

info@intechnochina.com

Sales:

sales@intechnochina.com

Careers:

careers@intechnochina.com

Visit Our Website:

www.intechnochina.com

CONTACT US

Office Address

5th Floor, Tower A, Keyuan
Mansion,
No.105, Xisanhuan North
Road, Haidian District,
Beijing 100048, P.R. China

Ph. No. 86-10-68430981

Fax No. 86-10-68430081

General Information:

info@intechnochina.com

Sales:

sales@intechnochina.com

Careers:

careers@intechnochina.com

Visit Our Website:

www.intechnochina.com

Benefits to Customer

- I This was an exceedingly important and highly technical project, requiring the delivered system to securely handle huge amounts users and the transfer of massive sums on money on a daily basis. Intechno engaged with all of its technical expertise, industry knowledge and proven methodologies to meet the requirements of China Telecom, providing an innovative, intelligent and above all secure and stable system to our customer and their 10's of millions of users.
- I The ongoing success of the delivered solution provided by Intechno has lead to a long and strong working relationship with China Telecom.

Technology Used

- Solaris 9
- J2EE, JSP, Servlet, Jrun,
- Web Service, SSL, CA, Log4J.
- Rational Rose, MS Project2000,
- MS SourceSafe 6.0
- Oracle 9i

