

Telecom Industry

1. BOSS Solution

- **Clients**

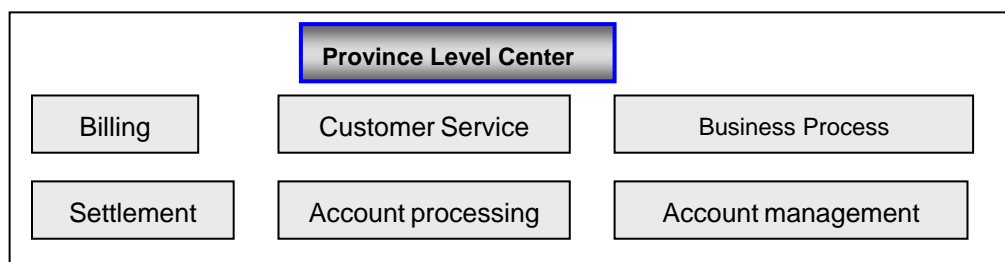
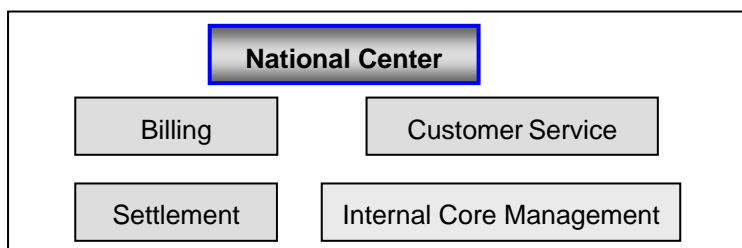
- Huawei Technologies Co., Ltd.
- CMCC(China Mobile Communications Corporation)

- **Solution Description**

Huawei is a leader in providing next generation telecommunications networks, and now serves 36 of the world's top 50 operators, along with over one billion users worldwide.

China Mobile Communications Corporation (“China Mobile” for short) went public in Hong Kong and New York Stock Exchanges. Currently, in terms of its market value, China Mobile is the largest among all the overseas listed Chinese companies and among all the telecom carriers in Asia.

BOSS is an enterprise system built for telecom company managing its core business process, including customer relation management, channel management, partner management, front office sales and backend accounting management etc. CVIC SE’s BOSS solution involves customer management, channel management, partner management and backend accounting management etc.



BOSS Overall Framework Diagram

- **Technology involved**

The system is developed using J2EE, C/C++, PL/SQL etc. and using Struts, Pangu and TuxeDo as its framework. Oracle is used for managing scalability in the future. The system can handle ten million transactions simultaneously.

2. InforGuard Security Operation Center

● Client

- CMCC(China Mobile Communications Corporation)
- China Unicom(China United Telecommunications Corporation)
- Sichuan Telecom Co., Ltd.
- Shanghai Telecom Co., Ltd.

● Solution Description

As the national largest website operating and managing unit, Telecom operators take very important responsibilities in the web security guarantee field. Based on the specific characteristics of telecom operators, CVIC SE has brought out the leading solution in telecom industries which is 'Web Security Surveillance and Protection System for SOC (security operation center) '. This system is based on website safeguard product--- InforGuard, which has CVIC SE's own independent IP, provides a complete security management platform for website operation and management in telecom industry.

Based on the current situation of telecom website operation and management, this system progressively maps out and sets up the website security surveillance and protection systems. This system covers from provincial level to national level, it also builds up the centered website surveillance and protection platform, thus to provide strong support for each level organizations to strengthen website security management and deal with security issues. Meanwhile, it also provides evidence and support for the management work like finding website, changing events, alarming, restoring and analyzing. The system uses integrated management with distributed deployment.

● Technology

The system uses distributed deployment. The OS includes: windows server, Linux, Solaris and Unix server etc. The application server include: Weblogic, Websphere, apache, BES and tomcat etc.

Transportation Industry

1. Highway Information Management

- **Clients**

- Shangdong Highway Co., Ltd.
- Guangzhou Highway Corporation
- Jiangxi Highway Co., Ltd.

- **Solution Description**

The Highway Information Management Solution complies with the rules of unified planning, standards and design, to link the tolling, communicating and monitoring systems of a highway network. Resources can be shared and put under unified management, thereby supporting affairs management, decision-making analysis and strategy-making concerning highways.

The Shandong Highway Information Management System is one of the most outstanding success cases in China transportation informationization field. It is the largest IT system of China. CVIC SE's Highway Information Management solution has taken more than 15% of market share in China highway transportation industry.

Besides the Shandong market, it also has been successfully applied in Jiangxi Highway, Hongkong Tunnel, Guangdong Highway, Shanxi Highway, Sichuan Highway etc.

- **Technology involved**

Highway Information Management system is a complicated and integrated system. The hardware platform is IBM. The system is developed in C, Delphi, and PB. The database is IBM DB2.

2. Railway Containers Management

- **Client**

- China Railway Container Transport Co., Ltd. (CRCT)

- **Solution Description**

The Railway Containers Management solution lays an IT foundation for management of the entire container industry of China. It provides conveyance business chain management and conveyance workflow monitoring for enterprises.

This system integrates data collection, cash accounting, information transfer, and asset management. It delivers information collection, resource sharing, management of cash settlements and dispatching along the whole railway line.

- **Technology**

This system was developed with C programming on HP UNIX; TCP/IP development; ESQL/C and INFORMIX database system.

E-Government and E-Commerce Industry

1. Taxation Management and Monitoring

- **Clients**

- China SAT (State Administration of Taxation of China)
- National Taxation Bureau of Shandong

- **Solution Description**

This solution is a decision-making support system based on the information integration, data warehouse and multi-dimension analyzing system. The solution was designed to consolidate business data in existing applications and to share information among interrelated departments of their organization.

Applying middleware products, CVIC SE re-organized the legacy application systems and set up state taxation monitoring and data analysis management. The systems cover levying management, macro information monitoring, tax sources management and monitoring, monitoring of key tax resources, data quality analysis and one-unit inquiry. The solution delivers integrated monitoring and analysis for the state taxation system throughout the province.

- **Technology involved**

The overall technical framework adopts the B/S model based on J2EE. The application server is BEA Weblogic. IBM's OLAP Server is used for reporting. CVIC SE's InforEAI is EAI tool for integrate all the subsystems.

2. Maritime Safety


- **Client**


- China MSA (Maritime Safety Administration of China)
- Changjiang MSA (Changjian Maritime Safety Administration)
- Fujian MSA (Fujian Maritime Safety Administration)
- Shandong MSA (Shandong Maritime Safety Administration)

- **Solution Description**

The Maritime Safety Solution provides IT management for all the ships and crew of China. The solution centers on the surveillance and management of maritime safety.

By standardizing and optimizing the work process of maritime work, it delivers data integration, unified management, and decision-making analysis of information concerning maritime safety surveillance. It is an effective tool for departments concerned with maritime administration, strengthening the surveillance and control of maritime affairs, promoting work

<p>efficiency and improving service quality. The system implements the computerized processing of the main maritime affairs while providing fundamental guarantees for "Digital Maritime" and "Sunshine Maritime".</p>
<ul style="list-style-type: none"> ● Technology <p>The Maritime Safety Surveillance Information System adopts an MVC pattern. A controller component was implemented between the browser and the JSP/SERVLET, processing the distribution logic from HTTP requests.</p>
<p>3. Marketing software</p>
<ul style="list-style-type: none"> ● Client <ul style="list-style-type: none"> ● Raivent Inc. (Canada) <div style="text-align: right;">  </div>
<ul style="list-style-type: none"> ● Solution Description <p>Market Force system is a campaign and marketing tool that allows users to easily create campaigns to control the grouping and flow control of activities to consumers. The UI is web-based and will allow for a graphical creation of campaigns. The Hawkeye System enhances the functionality of MS CRM, integrated within MS CRM. The Hawkeye System has its own Database to store campaign information and retrieves customers' data from MS CRM Server through a Web Service. The Market Force system's end users are marketers.</p>
<ul style="list-style-type: none"> ● Technology <p>The technical framework adopts the B/S model based on .Net. The application server is MS IIS. The database is MS SQL Server 2005. The programming technology includes: Ajax, XML/XSLT/DTD and Web Services.</p>

Embedded Industry	
1. Smart Phone Solution	
<ul style="list-style-type: none"> ● Clients <ul style="list-style-type: none"> • Sprint Nextel • Sanyo Electric Co., Ltd. 	
<ul style="list-style-type: none"> ● Solution Description <p>Sprint Nextel is the third mobile carrier of America. Sprint is widely recognized for developing, engineering and deploying innovative technologies, including two wireless networks serving nearly 51 million customers at the end of the third quarter 2008.</p> <p>SANYO Electric Group develops unique technologies and offering excellent products and sincere services. The Group seeks to become "as indispensable as the Sun" for the people of the world.</p> <p>This solution provides the first non-Motorola phone to offer Nextel Direct Connect (NDC). Currently, The solution's product is the hot buzz among CDMA and iDEN customers in America and New Zealand since its powerful functionalities, accurate positioning with Sprint's excellent mobile network support. As a typical embedded system, agile development is the top selection. During the approach, key modules like 'upper machine', 'middle layer' and 'PLC' should be clearly defined.</p>	
<ul style="list-style-type: none"> ● Technology involved <p>The system uses mobile O/S of REX (Qualcomm), Flash UI and J2ME etc to achieve lite LOC (Line of Control), high reliability and effective performance.</p>	
2. Garage Control Solution	
<ul style="list-style-type: none"> ● Client <ul style="list-style-type: none"> • A company in USA 	
<ul style="list-style-type: none"> ● Solution Description <p>This system built and programmed to control commercial doors in parking garage facilities. Currently, the system has been widely deployed in urban park field, mall park facility and auto park lift in America.</p> <p>The system's features include: Automatic door control, Park control, Fire alert and control, Illegal inburst control, License plate photo capture and Remote control.</p>	
<ul style="list-style-type: none"> ● Technology <p>The core system communicates with various devices such as electric eyes, loop sensors, motion sensors, weight sensors, limit switches, contact sensors, safety strips, video camera, card reader, barrier activators, etc.</p> <p>The software development uses Paradigm C/C++ and JAVA ECLIPSE.</p>	