

VIMPELCOM

DEPLOYING A SOPHISTICATED CORE BILLING SYSTEM FOR VIMPELCOM RUSSIA'S VAS MOBILE PORTAL

Challenges

VimpelCom looked to become national mobile operator

Multi-access internet portal required sophisticated core billing system

Billing system needed to be integrated with existing business applications

Tight schedule for deployment to support new VAS services

Solution

Reksoft enabled high system scalability and option to add new interfaces

JMS-based interface introduced to serve integration needs

Billing subsystem operates on both Unix and Windows operating systems

We performed development, testing, deployment and integration

Result

Cost-effective, flexible billing subsystem implemented

Use of open, non-proprietary technologies reduced cost

VimpelCom benefits from high performance, scalability and integration capabilities

Timely, accurate billing improves subscriber experience and loyalty



Client

The VimpelCom Group consists of telecommunications operators providing voice and data services through a range of mobile, fixed and broadband technologies. The Group includes companies operating in ten countries, covering a total population of about 340 million people.

Challenge

The turn of the century brought new challenges for VimpelCom Russia, as the company looked to grow from being a primarily Moscow-based operator to secure and maintain a leading position on the national market. To achieve this goal, VimpelCom had to meet subscribers' growing demand for value-added services, and in June 2000, the company's multi-access internet portal, www.beeonline.ru, was launched.

VimpelCom then needed a sophisticated core billing system to gather and process the new VAS revenue.

The task was to design and to develop a billing subsystem and complete a full-cycle software development project including consulting, engineering, coding, testing and integration with existing business applications. The project needed to be carried out quickly to support the newly introduced VAS services.

Solution

We worked closely with the client's project manager to determine the technical requirements of the billing subsystem. All modules that interacted with external interfaces were designed to support the same format in data exchange as the core system, which ensured high system scalability as well as the option to quickly add new interfaces.

System architecture was designed to support high-scale integration with portal services and other external systems. We introduced a JMS-based interface, which was specially designed to serve integration needs. The system was implemented for the J2EE platform and can operate on both Unix and Windows operating systems.



Technology

Java, Java Server Page, J2EE, XML, Sun Solaris, Oracle Enterprise, JDK, Borland Jbuilder

Type of service

Consulting, application development, engineering, coding, testing, integration

Scale

3 man-years

Timeframe

2000 – 2001

The integration is based on current industry standards, using Message Oriented Middleware for communication between the billing subsystem and external systems and XML-based format of data transmission.

We successfully completed development, testing, deployment, integration and acceptance tests, as well as producing administrator and user guides for the developed subsystem.

Result

A cost-effective, flexible billing subsystem was implemented and deployed for VimpelCom's mobile portal, using open, non-proprietary technologies. Our scalable solution ensured ongoing high performance and easy integration with other business applications. The billing subsystem, deployed on schedule, allowed VimpelCom to provide timely, accurate billing for newly introduced value-added services designed to improve customer experience and increase customer loyalty. Moreover, the system is future-proof, capable of billing emerging VAS for over seven years.

About Reksoft

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Global HQ
St. Petersburg,
Russia
+7 812 325 2100
rfi@reksoft.com

Reksoft CIS
Moscow,
Russia
+7 495 258 9401
rfi@reksoft.ru

Reksoft Scandinavia
Stockholm,
Sweden
+46 8 500 083 21
rfi@reksoft.se

Reksoft GmbH
Munich,
Germany
+49 89 5455 8282
rfi@reksoft.de