



The Federal Service for Financial Monitoring

CUSTOMER SUCCESS

Helping to Combat Money Laundering and the Financing of Terrorism in Russia

Faced with the real, day-to-day threat of money laundering and other fiscal crimes in the Russian financial services industry, The Russian Federal Service for Financial Monitoring (FSFM) relies on a high performance, high availability Oracle database environment. Challenged with increasing performance in this infrastructure, FSFM deployed Precise i³ to detect problems before they impact end users, ensure critical Oracle business applications perform at peak efficiency, and isolate the performance problems by tier.

Combating Money-laundering and the Financing of Terrorism

The main role of The Russian Federal Service for Financial Monitoring (FSFM) is to counter the money-laundering of criminal incomes and the financing of terrorism. The state-run agency is also tasked with gathering, processing, and analyzing information on potentially fraudulent fiscal operations.

The system of gathering and processing information within FSFM results in massive daily data streams; all of which have multilevel structures and complex interrelations. The analytical software which the Federal Service relies on has been continually enhanced over the years and has placed increasing pressure on database performance. The agency was commonly faced with operating servers at the upper reaches of their performance, despite the fact that calculations showed the server processor capacity would suffice.

Specialists from The Federal Service and CROC (a leading Russian provider of IT infrastructure design and support services) analyzed the situation and concluded that the problem was an unequal setup of the DBMS database.

A tool with a simple and easy interface was needed; one that was capable of determining the bottlenecks, predicting the influence of planned changes in real-time, and offering an optimum set of settings and components for the information system.

Organization Profile

The Russian Federal Service for Financial Monitoring (FSFM) is helping to counter the money-laundering of criminal incomes and the financing of terrorism. The state-run agency is also tasked with the gathering, process, and analysis of information on potentially fraudulent fiscal operations.

Industry

Government

Solution

Application Performance Management

"The Precise solution revealed and resolved problems in areas where we would never begin to think about looking."

Yuri Grebenshchikov

Head of IT Department
The Federal Service
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Precise i³ pinpoints the cause, identifies the most effective action and restores peak performance.

FSFM decided to deploy Precise i³ to monitor, analyze, and adjust DBMS performance. Precise i³ enables the centralized monitoring, gathering, and analysis of statistics on all the software and hardware subsystems which influence the overall performance of the DBMS.

The information on subsystem performance enables the team to identify and eliminate bottlenecks in the information systems. Moreover, Precise i³ includes features which deliver recommendations for adjusting and regulating the various parameters of the systems. The framework was installed on a Windows 2000 server; whereas the monitored database with appropriate agents was deployed on a Sun Fire 15K server with Solaris 8.

Balancing Computing Resources

Immediately following the implementation, Precise i³ helped FSFM balance the use of available computing resources. On one hand, the government agency was able to increase processor utilization, and on the other it was able to achieve a balance between increased productivity and the average loading of each server. The next stage helps reveal the shortcoming of database optimization of SQL database queries: most of the time, computing resources of the server were used for service of only several queries.

The final factor limiting DBMS productivity also became obvious using, Precise i³ — the insufficient throughput of a disk subsystem. CROC specialists upgraded the data storage system with the addition of a Sun StorEdge 6130 storage array. All of these efforts led to an appreciable increase of productivity.

The experience with Precise i³ has shown that one administrator can successfully manage the current tasks of DMBS management. Now the monitoring and analysis of system productivity are being used by the teams implementing the analytical part of the system.

“The Precise solution revealed and resolved problems in areas where we would never begin to think about looking,” says Yuri Grebenshchikov, head of IT department of The Federal Service for Financial Monitoring. “Precise i³ is a highly effective tool which provides a tremendous volume of information— all of which helps us to analyze and optimize our systems. Using Precise i³, we have already achieved a crucial increase of our DMBS productivity. This enables FSFM to process information faster and more effectively.”

More customer success stories can be found at: www.precise.com

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SOLUTION AT A GLANCE

Business Drivers

- Tackle money laundering and other fiscal-related crimes in high performance, high-availability environment
- Reduce costs

Technology Challenges

- Improve database performance
- Eliminate risk of downtime
- Identify the most effective course of action for performance degradation, and quickly solve the problem

Solution

- Deployed Precise i³ to monitor and dynamically analyze Oracle performance and optimization

Precise Products

- Precise i³ for Oracle Applications

Technology Environment

- Storage: Sun StorEdge 6130 storage array
- Applications: Oracle Applications
- Servers: Windows 2000 server, Sun Fire 15K server running Solaris

Precise Partner

CROC

BUSINESS VALUE AND TECHNICAL BENEFITS

Performance

- Increased processor utilization
- Increased the performance compared with the previous system

Efficiency

- Enhanced the efficiency of the entire IT infrastructure
- Reduced burden on administration team through easy of operation