

**Eldorado at a Glance**

- ▶ **Headquarters:** Moscow
- ▶ **Employees:** More than 15,000
- ▶ **Revenue excluding value-added tax:** 95 billion rubles (US\$2.9 billion)
- ▶ **Products:** Home appliances and electronics
- ▶ **Area:** 450 cities across Russia

[www.eldorado.ru](http://www.eldorado.ru)

Source: Eldorado

# For Eldorado, Real-Time Data Is a Competitive Edge

A large Russian retailer reduces shortages and improves profitability by accelerating its response time to changing market conditions.

BY JOE MULLICH

**S**uccess in retail is often accompanied by complicated side effects—like keeping inventory levels in line with demand following a marketing campaign. Eldorado, the largest retailer of consumer electronics and household appliances in Russia, recently took action to keep its stores from running out of goods when response to an advertised promotion is unexpectedly high.

“Out of stock is an issue all over the world,” says Fabricio Granja, Eldorado’s deputy vice president for IT. “The empty shelves affect the image of your entire company.”

Indeed, a new Deloitte survey of 5,018 U.S. consumers found that 45 percent of respondents would switch store chains or Web sites when unable to find a desired item in a retailer’s store (see Figure 1, “Promotions, Out-of-Stocks and Customer Behavior”).

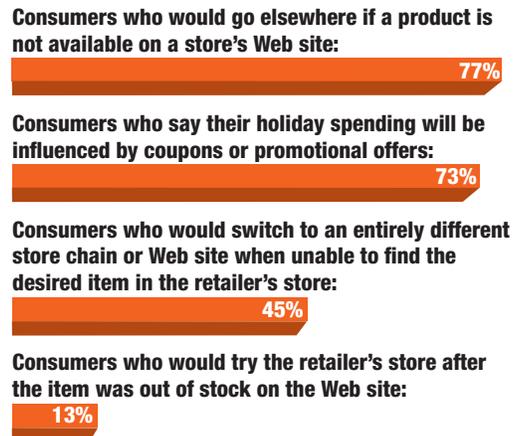
Correcting this problem required tighter coordination between Eldorado’s marketing, sales and warehouse operations. However, getting timely insight about sales to synchronize those areas of the business was difficult, given the sprawling nature of the company.

## Many Moving Parts

Founded in 1994, Eldorado has stores in more than 450 cities across Russia. It sells more than 20,000 items in 110 product groups—everything from refrigerators to headphones. “When you operate across seven time zones, you are challenged on how to plan deliveries to stores, handle stock replenishments and take care of the customers in each region,” Granja says.

Eldorado also has a history of expansion and innovation. Although the retailer has long been a leader in mass-market sales, it has increased its

**FIGURE 1 Promotions, Out-of-Stocks and Customer Behavior**



Source: Deloitte's 2013 Annual Holiday Survey, October 2013. <http://goo.gl/eUkp7t>

presence in the last two years both through Internet sales and by moving into premium goods.

Adding to the retailer’s complexity, Eldorado introduced a concept that was new to the Russian market: Purchasing online, and picking up the goods at small retail outlets. That concept added more than 30 Internet units and 120 order and pick-up points to the company’s omnichannel portfolio.

Eldorado’s marketing is just as multifaceted. The company continuously runs promotions for both its online and its brick-and-mortar stores. On its Web site, a visitor might see offers ranging from “product of the day” to “30 percent discounts on

### Eldorado's Real-Time Data Mandate

- ▶ Reduce out-of-stocks resulting from marketing promotions
- ▶ Obtain insights into sales across all regions in real time
- ▶ Reduce IT infrastructure complexity
- ▶ Speed promotion planning

### Eldorado's IT Solutions

- ▶ Implement in-memory computing
- ▶ Connect technology to the business warehouse and merchandise and assortment planning applications
- ▶ Adopt new ERP system

30 popular items.” Tracking all these efforts—and making sure they do not cannibalize each other—is another part of Eldorado’s big data puzzle. The question was how Eldorado could obtain real-time insight into sales to adjust its overlapping promotions and inventory across its many regions and channels on the fly.

### Speeding Information Flow

The solution was in-memory computing, which can analyze huge amounts of data quickly. Eldorado uses in-memory computing to power its warehouse and merchandise/assortment planning applications, which support its four warehouses and retail stores. Those applications connect to the enterprise resource planning systems and point-of-sale data-management mobile solution.

This setup has dramatically improved data accuracy and Eldorado’s reaction speed. The retailer can now produce its 10 most-requested reports 90 percent faster than before. A report that would typically take five minutes to run can now be done in less than 30 seconds (see Figure 2, “In-Memory Impact”).

This improvement has important ramifications. Because information can be produced so quickly, employees rarely have to anticipate which data they will need, as it is at their fingertips, enabling them to react immediately to changing market conditions. For instance, marketing can instantly see how a promotion is affecting sales and then offer discounts or shift inventory to maximize revenues. The result is a significant reduction in shortages and cost of capital, which improves profitability.

Speeding the flow of information has enhanced many other elements of Eldorado’s business. Complex assortment planning sped up by two-thirds, reducing planning time from 35 hours to 12 hours. Granja says product gross-margin calculations can also be planned more precisely because they are based on real revenue. “It has enhanced my relationship with the bank that provides our credit line,” he says, “because having the financial information allowed us to do better financial planning.”

FIGURE 2 In-Memory Impact

	Before	After
Running a report	5 minutes	30 seconds
Complex assortment planning time	35 hours	12 hours
Cost allocation	4 days	4 hours
Database storage	2.33 TB	535 GB
Promotion planning (anticipated)	2-3 days	2-3 hours

Source: Eldorado

Real-time information enables executives to stay abreast of current strategies. “We reduced cost allocation from four days to four hours, which reduced financial closing to three days,” Granja says. “I can now send reports to shareholders much faster.”

Because of the data compression features of the in-memory computing system, Eldorado has lowered its database storage from 2.33 terabytes to 535 gigabytes—a 77 percent reduction. The in-memory processing architecture is also easier to manage, because data warehouse administrators no longer need to spend time on the technical details of defining and managing data aggregates. “My staff can spend more time on analyzing the data and planning, rather than collecting the data,” Granja says.

The next stage for Eldorado will be to apply in-memory computing to customer-centric processes such as customer segmentation. This would enable personalized promotions based on information such as customer birthdays or previously purchased items. Given that the retailer’s loyalty program includes 10 million members, plenty of data exists for doing just that.

“Instead of taking days to plan a promotion, we’ll be able to do it in two or three hours,” Granja says. “Given how fast the world of retailing is becoming, we need to react more rapidly over the entire cycle of the customer relationship.” •

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This research project was funded by a grant from SAP.

## SAP Recipe for Success

- ▶ Applied Analytics
- ▶ Predictive Analytics
- ▶ Business Intelligence
- ▶ Enterprise Performance Management
- ▶ Governance, Risk and Compliance
- ▶ Mobility
- ▶ Database and Technology
- ▶ Information Management

# How SAP Delivers Real-Time Insights to Improve Retail Execution

Being profitable as a retailer is getting harder. Online competition, with its price transparency, is increasing pressure on revenue. Meanwhile, consumer behavior is becoming more dynamic and increasingly mobile, making it harder to target and retain customers.

In response, retail is becoming more real-time. Consumers want product information, order status and even products delivered immediately. To retain customers and acquire new ones, retailers need to make cross-sell and up-sell offers on the spot, in addition to gathering and using feedback as soon as consumers provide it. Even supply chains are moving to real-time, as retailers optimize assortment planning, merchandising, pricing and allocation to maximize the return they get on their stores and inventory.

In this volatile environment, it is impossible to make decisions as rapidly and as accurately as necessary without a fundamental shift both in the way decisions are made and the way data is used to make them. Retailers' historical rules of thumb or reports about what happened last week and last month are not adequate for making high-quality decisions quickly. Retailers need real-time predictive analytics to understand more deeply what consumers want and respond to that demand in the most efficient way.

SAP is helping retailers around the world accurately assess the impact and effectiveness of their enterprise operations, including merchandising, the most effective store and channel assortments, marketing promotions according to their impact on profit, and gaining real-time insight about how customers are feeling and how this affects service delivery and product demand.

With analytics solutions from SAP for the Retail industry, businesses gain real-time insights into channel demand, customer insight, store operations, sales volume and profitability. Our analytics solutions help retailers efficiently manage and optimize their decision-making processes with a closed-loop approach to predict and visualize events and activities for higher revenue and a sharper competitive edge.

Analytics solutions from SAP provide the highest standard of excellence for enterprise planning, predictive analytics and business intelligence solutions. Our products and services are designed to enable all lines of business to make fact-based decisions about operations that are necessary to improve performance and gain a competitive advantage.

For more information about analytics solutions from SAP please visit this Web site:  
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