

## **DrugLogic LLC**

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### **INDUSTRY:**

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### **BACKGROUND**

DrugLogic specializes in developing analytical tools for managing issues related to drug safety. Drug Logic is the developer of the QScan product line, which supplies drug interaction information to a large number of healthcare providers, pharmaceutical companies, and research organizations. As a part of their service, they gather information related to drug interactions and side effects from around the world including FDA and the CIOMS data provided by WHO.

Drug Logic's business has grown significantly over the years. Recent attention to biological and chemical warfare, as well as overall globalization has increased demand for the Drug Logic services.

### **PROBLEM STATEMENT**

Drug Logic's primary problem was system scalability. As demand increased, the response times deteriorated markedly. With looming large-scale growth in demand, and several new service lines being developed internally, Drug Logic was faced with the possibility of not meeting the commitments.

### **ISI SOLUTION**

Drug Logic's problem was purely technological. The data extraction modules, as well as the database were not clustered. The response times were exponentially related to the number of simultaneous operations.

ISI approached Drug Logic's problems by proposing horizontal scalability at the application layer as well as at the database layer. The application layer distribution was instituted first followed by database layer clustering.

Today Drug Logic runs a very scalable technology platform, and has consistently met their service goals.