

## DrugLogic LLC

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### **BACKGROUND**

DrugLogic specializes in developing analytical tools for managing issues related to drug safety. DrugLogic 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 the U.S. Federal Drug Administration (FDA) and the CIOMS data provided by the World Health Organization (WHO).

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

### **PROBLEM STATEMENT**

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

### **ISI SOLUTION**

DrugLogic'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 DrugLogic'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 DrugLogic runs a very scalable technology platform, and has consistently met their service goals.