ILOG Server

Connecting supervision GUIs

Rapid response and complete connectivity

The supervision centers of complex networks like those in telecommunications, transportation and gas distribution must share information among scores of operators in real time to enable them to respond within seconds to a malfunction or other unexpected event. This makes the software linking their graphical user interfaces (GUIs) invaluable. It must deliver high performance and scalability as a middle-tier mediation server, and lend itself readily to maintenance and expansion.

Stay in sync

ILOG Server can synchronize hundreds of GUIs and connect them to the data flow of a network. When an alarm is triggered in the network, it is sent directly to an operator, and the operator's response is instantly shared with other operators throughout the supervision system. ILOG Server shortens the time between alarm acquisition and display even when several events per second must be processed and the system has thousands of objects.

Supports knowledge integration into supervision systems

ILOG Server can efficiently map a physical description of a network to one or more graphical displays. These displays are then shared among computers to ensure communication among operators. ILOG Server provides the high-performance synchronization services needed for supervision applications. It frees system integrators to concentrate on delivering their core expertise instead of spending valuable time building a server support system to link widely distributed GUIs. Supervision systems are delivered faster and serve longer with ILOG Server.

- **Highly scalable modeling framework**

- **Synchronize Java™ and C++ GUIs**

- **High-performance notification engine**

- **Rapid prototyping**

- **Web-enabled supervision**

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Highly scalable modeling framework

ILOG Server is a highly scalable, C++ object framework that provides powerful business modeling facilities for representing the elements and topology of a supervised system as shared in-memory services. Its modeling abstractions match those offered by object-oriented design notation like UML, and bridges the gap between business model design and implementation. Objects stored in the ILOG Server-based mediation server are active, meaning that all business events, such as object modifications and structural changes, are registered and buffered for forwarding to subscribing clients.

Synchronize hundreds of Java or C++ GUIs

ILOG Server allows developers to define one or more mappings from the physical system's object model to the graphical model. It provides ready-to-use graphical models for the Java Swing controls in the ILOG JViews Component Suite and ILOG Views Data Access. GUI clients subscribe to a view of the system, such as a subpart of the system or a category of events, through bidirectional connectors called Dynamic Views. The clients are notified when the system is modified, and can send modification requests to the server. The GUI can be connected using the fast communication layer for Java and C++ provided with ILOG Server or a CORBA bus based on IONA Orbix or Borland VisiBroker.

High-performance notification engine

ILOG Server implements sophisticated optimization to provide the high performance required by supervision applications. This allows hundreds of clients to be connected to a single server managing thousands of objects and hundreds of events per second. For supervising very large systems, like countrywide telecommunications networks with millions of monitored elements, ILOG Server supports a pyramid architecture in which low-level servers receive events for part of the network and report to a higher-level server that aggregates the events for a wider part of the network.

Rapid Prototyping

System integrators often need to rapidly demonstrate a prototype of their solution for scalability or functionality tests. ILOG Server provides powerful services for developing customized prototypes in record time. The business object model corresponding to the supervised system can be defined using the XMI format, enabling communication with production specification environments, including Rational Rose. In addition, ILOG Server features an implementation of the well-known JavaScript language, which enables code to be added to the server without the need for C++ compilation. ILOG Server Studio enables developers to rapidly create a GUI through drag-and-drop editing, and connect it directly to the business object model.

Web-enabled supervision

Control-room managers often need to have a synthetic view of a system and see the status of the problems requiring attention. ILOG Server provides a specific client, based on the Java Servlet technology, that can generate reports for the Web. By providing both Java integration and thin-client capabilities, ILOG Server has proven to be ideal for creating Web-enabled supervision applications.

"For one of the biggest telecommunications users in the U.S., we delivered a telecom inventory management prototype with a fully populated server and a highly interactive Java GUI in less than one man-month of development effort. [ILOG Server's] dynamic modeling, as well as the Java data sources, dramatically cut our development period by two-thirds. They smoothly supported a lot of iterations in the development process in order to meet the end user's requirements."

– Olivier Nicolas
Chief Technical Officer
OpTech Software Corp.

Learn more

For more information on ILOG Server, contact an ILOG Sales Representative near you or visit http://server.ilog.com.

ABOUT ILOG

ILOG delivers software and services that empower customers to make better decisions faster and manage change and complexity. Over 2,000 global corporations and more than 400 leading software vendors rely on ILOG's market-leading business rule management system (BRMS), optimization and visualization software components, to achieve dramatic returns on investment, create market-defining products and services, and sharpen their competitive edge. The BRMS market share leader, ILOG was founded in 1987 and employs more than 600 people worldwide.

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