ILOG ODF

Extend the capabilities of your SAP APO™

Flexible supply-chain planning solutions

The unique manufacturing and planning processes of a factory, a company, or even an entire industry, require customized solutions. ILOG Optimization Development Framework (ILOG ODF) complements standard SAP Advanced Planner and Optimizer (SAP APO) planning tools with user-specific optimization functionality. It renders flexible supply-chain planning solutions that fully meet business requirements and yield higher ROI.

Connect existing applications or build new ones

Whether you wish to capitalize on your existing stand-alone optimization applications by connecting them to your SAP APO system or build a complete custom solution from scratch, ILOG ODF provides the toolset to enhance SAP APO with valuable optimization and planning functionality. In either case, ILOG ODF ensures that enhancements are easy to build, deploy and maintain, and tightly integrated with SAP APO.

Seamless integration

ILOG ODF extensions connect seamlessly with SAP APO through a standard integration mechanism – SAP APO Optimization Extension Workbench (SAP APX) – delivering the advantages of a one-concept supply-chain solution: one database source, one graphical user interface, and one planning system and process.

- ■ **Create flexible optimization strategies**

- ■ **Meet vertical industry needs**

- ■ **Leverage your SAP APO**

- ■ **Cut total ownership cost**

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Changing the rules of business™

Create flexible optimization strategies

By extending the standard optimizers and heuristics in SAP APO with customizable optimization components, ILOG ODF adds flexibility to optimization strategies. ILOG technology matches user-specific requirements, producing a planning system that addresses the precise needs of an enterprise.

Meet vertical industry needs

In vertical industries, SAP APO may be extended to create a planning system for capturing the unique processes of a business. Though vertical industries share some processes, most are specific to end users, requiring case-by-case enhancements for SAP APO.

ILOG ODF addresses distinct vertical-industry processes such as cast-line and mill optimization in steel and paper industries, waste minimization in metal and high-tech industries, space optimization in distribution, product blending in process industries, lots/machine allocation in the semiconductor industry, detailed vehicle configuration and routing – any of your own specific business processes.

Leverage your SAP APO

ILOG ODF lets you maximize the benefits of your existing SAP solution by applying SAP APO to any business problem. ILOG ODF packages leading optimization technology with data access and advanced graphics in an extension, or cartridge, for SAP APO. A cartridge leverages enterprise-specific domain knowledge without sharing it outside the enterprise. Results from the cartridge are displayed with an advanced graphical user interface tailored to specific requirements. Users are able to fully view and control the behavior of the optimization engine, checking solution quality during runtime and interrupting if necessary.

Cut total ownership cost

ILOG ODF cartridges are launched directly from within SAP APO, where they have access to SAP APO data. Data is optimized at top speed, and results can be previewed before being stored in SAP APO.

- **Reduced development costs:** ILOG ODF includes a predefined object-oriented model mapped to SAP APO data using SAP APX. The cartridge's predefined architecture makes running an optimization algorithm on the SAP APO server and controlling its parameters and results much easier on the client side.

- **Reduced maintenance costs:** Code generation and predefined ILOG ODF modules decrease the need for cartridge-specific code. ILOG ODF hides SAP APO version-specific features, enabling cartridges to be ported to future SAP APO releases.

ILOG ODF also supports parallel development. It allows several developer profiles to be defined, each with specific tools and features to accelerate work and make the development of cartridge parts in parallel possible. Each developer has access to a predefined object representation of the SAP APO data model. Access is also given to ILOG OPL Studio for prototyping and testing algorithms. The developer can model an algorithm and its associated data model, applying the ILOG optimization libraries. Testing can be carried out without a connection to a running SAP APO system. The integrator can tailor the predefined bridges between internal cartridge data and the SAP APO system. The cartridge can then be tested without being dependent on the developer's work.

> "Using ILOG ODF (and help from ILOG professional services), MG Industries was able to build and deploy a complex vehicle-routing optimization extension that captures our distinct business requirements. The extension plugs into SAP APO and gives us a single planning system that addresses our business needs."
>
> – Matthew Brown
> Vice President
> Supply-Chain Management
> MGI

Learn more about ILOG ODF by sending an e-mail message to moreaboutodf@ilog.com or visiting http://odf.ilog.com.
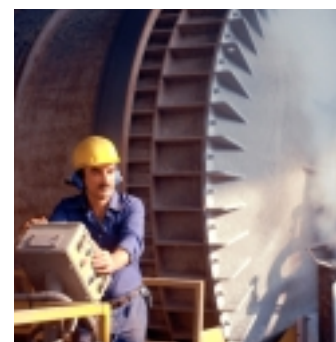
ABOUT ILOG

ILOG's innovative enterprise-class software components and services have helped companies maximize their business agility and improve operating efficiency for over 10 years. Over 1,000 global corporations and more than 300 leading software vendors rely on ILOG's business rules, optimization and visualization technologies to achieve dramatic returns on investment, create market-defining products and services, and sharpen their competitive edge. For more details, please visit www.ilog.com

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