



# iOPT\_COMMONS

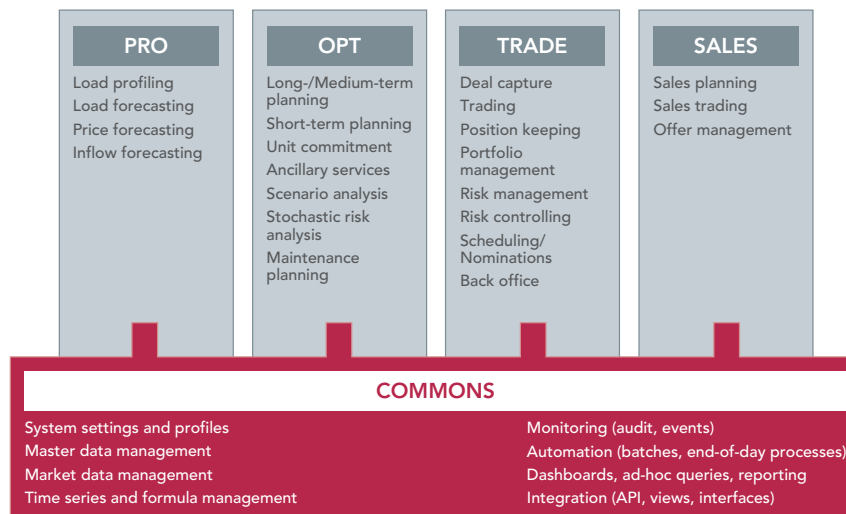


## The Fundament of the iOPT Energy Industry Solution

- *Central management of master data and business model information*
- *Process automation and alarms*
- *Flexible time series management*
- *Sophisticated reporting system*
- *Standardized interfaces for smooth integration into the enterprise infrastructure*

# iOPT\_COMMONS

## THE CROSS-MODULE FRAMEWORK



iOPT is a fully integrated multi-commodity solution for the energy sector. It uses a common database on which the Trade, Optimization, Forecast, and Sales modules as well as the base system iOPT\_COMMONS are built.

iOPT\_COMMONS constitutes the fundament of the iOPT energy industry solution as its functions are available in all modules. While Trade, Optimization, Forecast, and Sales each cover exactly defined areas of the energy sector, iOPT\_COMMONS acts as a business connector through which business processes are parameterized and cross-module master data is managed.

iOPT\_COMMONS allows the implementation and control of company-specific processes and their monitoring with the help of auditing and event handling. Evaluation and report functions complete the set of basic functionalities.

In addition, the available interfaces guarantee a continuous workflow and the seamless integration of the required system modules into an existing system architecture, allowing companies to benefit from this flexible approach.

### Benefits

Through the central management of master data and business information, which are accessed by all modules, iOPT\_COMMONS achieves high flexibility as well as continuity and a uniform look-and-feel. A steep learning curve and enhanced user satisfaction are thus guaranteed across the whole organization. Further cross-module functions such as the central management of users, privileges, and roles reduce administrative tasks.

Process automation saves time and costs for routine tasks. Workflow tools determine that rules are adhered to. Together they ensure the exact modeling and smooth operation of all processes. On top of that, the monitoring and alarm functionalities of the event handling and the audit system, both of which can be freely parameterized, check these processes, thereby guaranteeing maximum security.

The sophisticated and highly flexible iOPT\_COMMONS reporting system—it ranges from standard reports to the connection to high-end reporting tools—offers comprehensive evaluations which enhance planning security and transparency.

Connectivity tools and standard interfaces allow the smooth and quick integration of iOPT into a company's system environment.

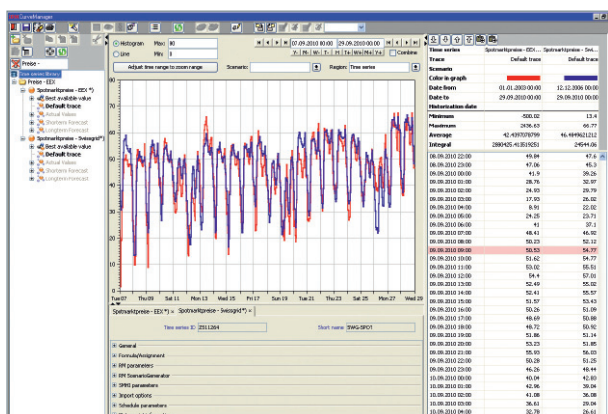


## Functional Characteristics

CurveManager and FormulaEditor constitute the core elements of the sophisticated **iOPT\_COMMONS** time series management.

As the central data hub, the **CurveManager** guarantees the reliable and comfortable administration of time series in various time step lengths. Time series can be created, imported and exported manually or automatically. Numerous calculation and aggregation functions are available for editing.

The CurveManager with its traces and scenarios concept supports working with different data qualities. Time series can contain several traces for modeling nominated values or allocated values, to name but a few. The best available value is calculated automatically from the traces according to a user-defined order. For each trace several alternative scenarios can be defined in turn. Scenario data of different time series can be combined to form an aggregate scenario, e.g., a cold year with minor price adjustments.



The **FormulaEditor** provides manifold options for linking and calculating time series and contracts. Calculations containing complex formulas can be included in business processes in an audit-proof manner and can also be archived. For sales, forecasting, and optimization the FormulaEditor also provides, among others, gas price formulas for forecasting index prices based on historical values, e.g.,  $3/1/3$  or  $6/1/3$  with fixing to fueloil or gasoil.

The **QuoteManager** is used to manage information from brokers and exchanges about quoted products for defined market places. The extensive market data management also includes compiling, editing, and maintaining correlations and volatilities for automatic risk calculations.

**iOPT** allows for an uncomplicated modeling and automation of **business processes**. By using batch routines and linking them to sequences, individual

process steps are combined into workflows. As they comprise automatic steps, they support users in complex operations, also helping to save time and costs.

The **audit system** monitors all system activities. This feature is complemented by an active event handling and **event management** for controlling and monitoring automatic processes such as batch routines, interface activities, or limit calculations.

**Connectivity tools**—standard interfaces for time series, deals, quotes, schedules, and application programming interfaces—ensure optimal integration of **iOPT** into a company's IT environment and secure data exchange with external systems. APIs are used for process control and import of selected master data, deals, time series, and quotes. Product-specific interfaces, e.g., to load dispatching centers and meteorological stations, DB-DB linking, or Middle\*Ware connections enable to tailor the system to individual customer requirements.

The highly flexible **reporting system** provides accurate key data, thus enhancing report quality and planning security. Its multitude of functions allow to fulfill all requirements of sophisticated reporting. Ad-hoc-queries on contract positions, results of risk evaluations, and time series information are available in the ReportingDesktop. Template-based reports in various formats can be created in the ReportGenerator. End-of-day reporting is supported by standard reports in connection with Crystal Reports. Customer Views provide access to database content and allow for flexible reporting via external systems (e.g., SAP-BW, Crystal Reports, Business Objects, etc.).

Additional functions support daily business: The **GraphManager** illustrates time series data, contract data, calculation results, or quotes. The **Document-Manager** allows for the audit-proof storage of documents in the database such as accounting documents. The **archiving functionality** removes contract, schedule and time series data which is no longer used in the productive environment from the database.





# iOPT\_System Solution

**iOPT** is an integrated system solution for the energy industry which, due to its high degree of flexibility, is used all over Europe. It focuses on the markets for electricity, gas, oil, coal, certificates, foreign exchange, and agriculture / soft commodities.

**iOPT** is completely customized to the requirements of deregulated markets—the experiences of our customers combined with the extensive know-how of our employees continually flow into further developments.

The modular structure allows **iOPT** to be implemented either as a complete solution or in individual subsystems. Due to this flexible approach, **iOPT** can be used by companies of all sizes—from energy producers, industrial corporations to public services. Every

customer receives an **iOPT** system that is entirely customized to their requirements and that increases the added value of their company.

The **iOPT** energy industry solution provides high flexibility, efficiency, and economic versatility due to its multitude of functions which can be activated on demand, no matter which modules make up the individual profile.

Due to its flexibility, **iOPT** can be customized at optimal costs to the individual requirements of companies of different sizes. Furthermore, **iOPT** supports companies in their effort to enter new markets and to react quickly and efficiently to changed conditions.



IRM is a leading software provider for system solutions in the energy sector. The company, which was founded in 1998 in Vienna, has over 120 employees and more than 60 references in numerous countries.

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