IFS Energy & Resources – Sentinel

Automated complex event processing and action engine.

IFS

Sentinel's intelligent real-time Complex Event Processing engine is designed to rapidly access and analyze vast amounts of data, from disparate sources, and provide immediate notification when required, as well as detailed statistical and analytical reports.
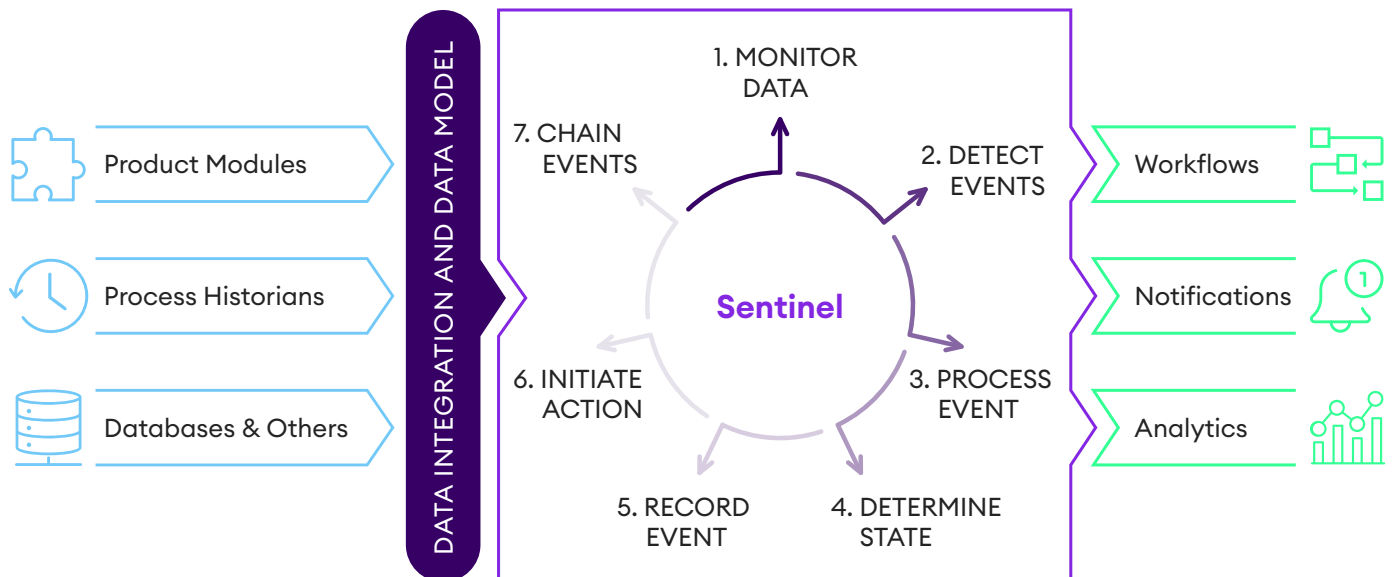
Sentinel provides end-users with a set of intuitive, web-based interfaces allowing them to simply define rules and event detection logic leading to actions when attention needs to be brought to an event. As a background surveillance activity Sentinel will monitor all configured detection rules, initiating the appropriate user action, or business process. Leveraging the Data Dictionary, event processing rules can be applied to all assets of a common type (e.g. Pumps), allowing for reuse of common asset surveillance rules, correlation of associated events, and responsive actions.

Improved efficiencies

- Constant watch over operations and triggers alarms and alerts when defined events occur

- Reporting by exception allows resources to focus on problem solving rather than problem identification

- Historical reporting allows easy identification of problem assets

Greater value

- Provides a 'plug and play' framework for a rich library of Processes

- Integration with IFS Energy & Resources – A-Plus and Shift Log

- Raise a case in IFS Energy & Resources – Explorer Case Management, and track the issue until completion

DATA INTEGRATION AND DATA MODEL

Product Modules

Process Historians

Databases & Others

Sentinel

1. MONITOR DATA
2. DETECT EVENTS
3. PROCESS EVENT
4. DETERMINE STATE
5. RECORD EVENT
6. INITIATE ACTION
7. CHAIN EVENTS

Workflows

Notifications

Analytics

Sentinel Processes

Sentinel uses Processes to implement its testing and evaluations. Processes are selected for the various tests, according to what is most appropriate for the particular asset under surveillance.

IFS Energy & Resources – Sentinel

Benefits

Configures monitors specifically for your business environment and needs

Allows you to decide what is necessary for your business with a functionality rich library of 'plug and play' processes
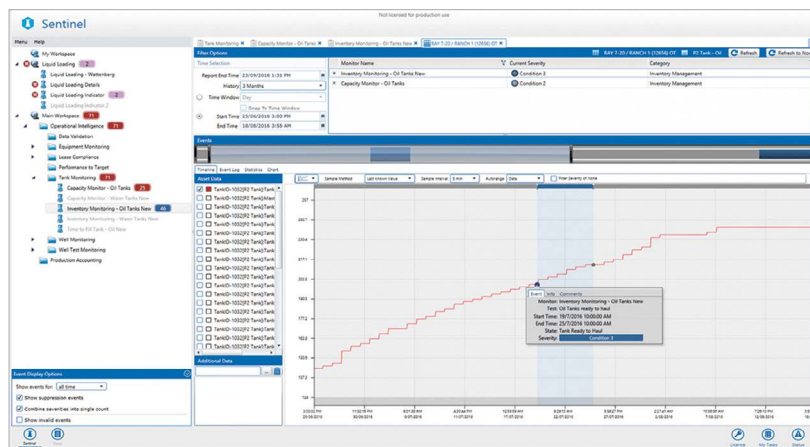
Leverages structure and data source integration via IFS Energy & Resources – Operational Intelligence Server

Ensures that designated personnel receive prioritized notice of events

Features

- Integration with Explorer Case Management, A-Plus and Shift Log

- User-configurable rules, conditions, and triggers, to create custom monitors designed around data from your business assets

- Sentinel interfaces to the Operational Intelligence Server data dictionary, utilizing Server hierarchies and templates

- Event data and comments stored in a SQL Server Database. For use in Sentinel reports and statistics, and available as tags in Explorer pages

- Historical monitor execution

- Monitors perform recovery execution when normal operations are interrupted

- Change management to regulate any adjustments made to monitors

- Easy to access anywhere on the corporate intranet, presented in simple tabbed pages

- Statistics, charts, and reporting provide a powerful graphical overview of timelines and events, with drill-down features showing the finest detail, comments, and history of events

← The Sentinel interface

- The filter options pane is used to define time frames for displayed data.

- The time slider allows the user to easily identify and focus on events.

- Asset data relating to source can be added to the graph.

- Selected asset data for the time frame is displayed in a graph, with related event information.

The foundation of Operational Intelligence

Server, Explorer and Sentinel form the foundation of Operational Intelligence.

IFS' Operational Intelligence solutions integrate the information from all your data sources and leverage exception based surveillance processes, which monitor your assets and trigger alerts and tasks when predefined events occur. Together, these tools and processes empower production teams to manage more wells and minimize, or even prevent, production deferments. The result? Better bottom-line performance for your organization.

Find out more: **www.ifs.com/sentinel**

Learn more about how our enterprise software solutions can help your business today at **ifs.com**.