

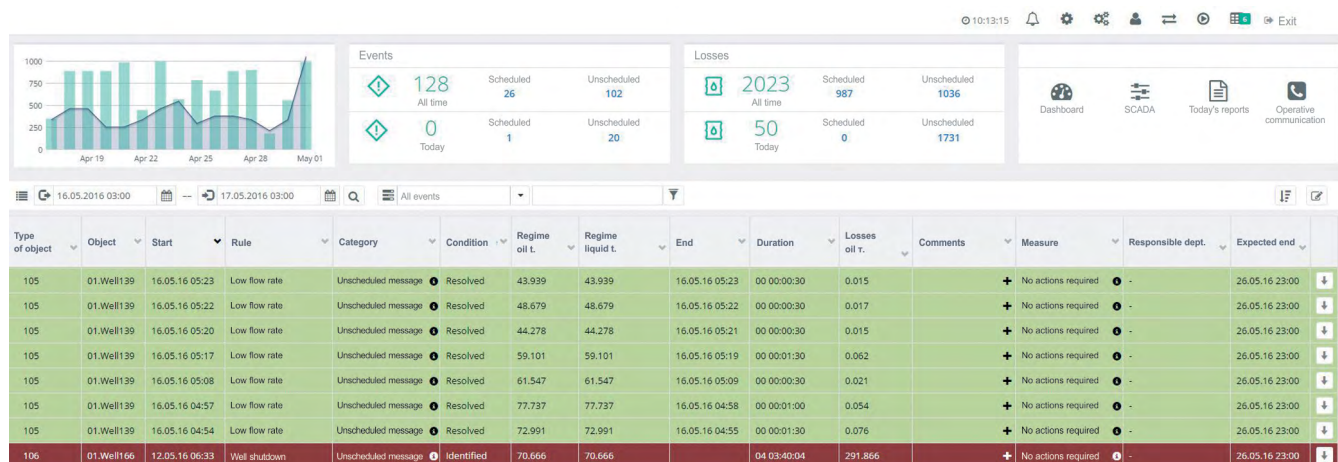
# AVIST platform for efficient control of oil and gas production based on integrated operations. AVIST Module.Operation

**AVIST Module.Operation (Emergency Log )** Event and Incident Control) is designed for event monitoring and operational control in real-time mode. The module controls tens of thousands of readings and provides process engineers with tools to develop analytical rules (“smart rules”) – sets of logical criteria to filter signals from a large number of production facilities in order to process only those events which can critically affect the key production processes.

AVIST.Operation minimizes response time in emergencies and reduces the probability of contingencies.

## Functionalities

- **Registration.**
  - Real-time automatic control of parameters from automatic process control systems (APCS) or automatic operational dispatcher control systems (AODCS).
  - Creation of events based on preset rules
  - Event classification (critical, important, for information).
- **Processing and notification** of responsible persons of an event.
- **Control of deadlines** for removing event causes.
  - Keeping on track of incidents liquidation reference books.
- **Report generation** according to events in different views.
  - Integration with external production systems (ERP, TOPO) to receive additional information required for event analysis.



## AVIST (Asset Visualization Smart Technology) —

is a domestic integration platform for consolidation, processing, analysis and visualization of engineering and field system data, which has advanced tools for event control at production facilities, integrated production planning and support of operative production decision making based on integrated tools for simulating an asset, formation potentials, well and aboveground process facilities.

# Advantages

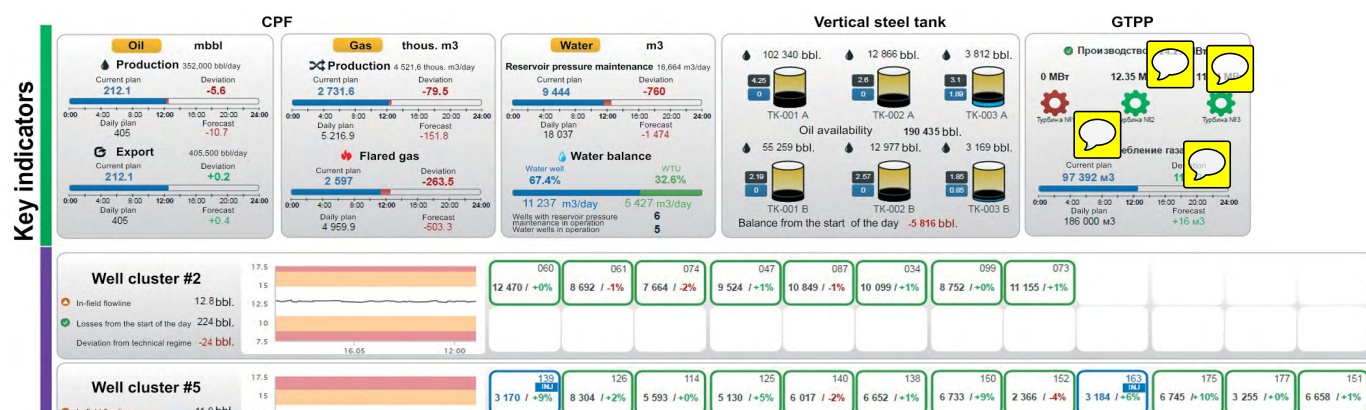
- **“Smart rules”**, developed by competent process engineers exclude “information noise”, reducing data volumes analyzed by specialists.
- **Operation in real-time mode.**
  - All deviations from the preset parameters are automatically registered and displayed.
  - Reaction to an event takes less than 3 seconds, regardless of the complexity of production facilities.
- **Integration** into existing landscape of production systems makes all the information required for decision making on an event available to an engineer.
- **Common interface** reduces the time required to search for information necessary for analysis.
- **Historical analysis:** operational information, comments and data on facilities at the time of an event remain in the history and are available for deeper analysis afterwards.
- **Data filtration** directly in the interface makes it possible to identify the required information: only critical events, emergencies with losses, unprocessed events.
- **Simple interface** simplifies the work of engineers and reduces time for performing scheduled maintenance related to oil field control.

# Implementation

- Deployment of event and incident control system AVIST. Operation in the customer’s equipment.
- Development of “smart rules” with consideration of the customer’s requirements.
- Connection and setup of user rights.
- Configuration of integration solutions(SAP/R3 etc.).
- User training. Development of rules and operational in structures for controlling events and incidents in production activities.
- System testing.
- System development, support and maintenance.

# Results of use

- Reduction of potential damage in case of incidents by identifying events in real-time mode (up to 3%).
- Reduction of response time to events by obtaining all the information required “in one window” (up to 20%).
- Reduction of accident rate by identifying repetitive events (up to 12%).
- Increase in accuracy and quality of data relating to production asset status.
- Reduction of losses by reducing the time required for incident elimination (up to 8%).
- Reduction of human factor effect in event control.
- Reduction of requirements for competence of engineers on duty, and consequently, reduction of current production expenses.
- Reduction of the load on personal due to use of a common interface (up to 25%).



# Contacts

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