



ID3 Benchmark V5.1: Real-Time KPI Monitoring, ID3 AI Assistant: Major Release

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The objective of this release is to extend the ID3 Benchmark with advanced real-time KPI monitoring, enabling users to analyze operational performance dynamically and compare real-time results against targets.

This release enhances the AI Assistant with faster performance, persistent conversational context, live reasoning, richer data interaction, and expanded drilling knowledge to enable smarter and more efficient operational analysis.

Key Enhancements - ID3 Benchmark

- **Real-time operational data integration**, providing continuous visibility of drilling activities and performance indicators directly within the Benchmark module.
- **Real-time curve and KPI plotting on time-based tracks**, enabling improved operational monitoring and dynamic performance analysis.
- **Accelerated Rig State and KPI calculations**, supporting real-time operational insight generation and faster performance evaluation.
- **Continuous KPI monitoring** against predefined targets, allowing rapid identification of performance deviations and optimization opportunities.
- **Interactive wells navigation map** to simplify the selection of the live and historical wells
- **Interactive user manual** to provide faster and more intuitive user support. The manual includes searchable content, step-by-step guidance, contextual navigation, and direct access to feature explanations, allowing users to quickly find relevant information and improve onboarding, daily usage, and troubleshooting activities

Key Enhancements - AI Assistant

- **Persistent conversations** with titled chat history, allowing users to resume analysis from any device with full context preserved across long-running investigations.
- **Live reasoning and parallel data fetching**, enabling real-time visibility into retrieval, phase comparisons, and result generation while accelerating large-scale multi-well analyses.
- **Context-aware follow-up suggestions, voice input, and inline interactive tables**, guiding exploration naturally through conversational queries and direct DataFrame interaction.
- **Expanded data discovery**, including offset well analysis, NPT breakdown by phase, daily report search, drilling handbook knowledge access, and an integrated data dictionary.
- **Enterprise-grade security and observability**, with tenant isolation, header-based scoping, role-based access control, authorization-aware filtering, and per-turn monitoring.

Business Impact

- The integration of real-time functionalities within the ID3 Benchmark is intended to improve operational awareness, accelerate performance evaluation, and provide immediate visibility into drilling efficiency and rig activity trends. The new capabilities support faster operational decision-making and contribute to measurable efficiency and productivity improvements through continuous KPI monitoring and target comparison.
- The ID3 AI Assistant transforms operational analysis by enabling drilling engineers, operations teams, and managers to engage in natural conversations with well data across the entire fleet, accelerating insight generation and improving data-driven decision-making.