JuraDOM

Drilling Business Intelligent Application Platform

Built on OiO 5D business ontology, unifying drilling data, graphics, knowledge and intelligence

JuraDOM is a drilling-domain intelligent application platform built on the OiO Integrated Intelligent Platform. It empowers scenarios including collaborative design, data acquisition, operation monitoring, risk early warning, NPT management, ROP optimization, resource scheduling, standardized operations and knowledge management, helping oil & gas companies and drilling service contractors improve operational visibility, data quality, collaboration efficiency and continuous improvement.

Three Core Positions

Ontology-Driven

Organize drilling business, data, graphics and knowledge with the OiO 5D business coordinates and MBU/IPOMSQ, connecting wells, wellbores, sections, conditions, tools, events, NPT, measures, cases and reports into a unified business chain.

Proven & Deliverable Capabilities

Cover collaborative design, data acquisition, operation monitoring, risk warning, NPT management, ROP optimization, resource scheduling, standardized operations and knowledge push—enabling practical and successful delivery.

Intelligence 3.0 Ready

Introduce drilling RAG, knowledge graph, intelligent agents, auto reports and well history generation and more—driving drilling applications from digital management to intelligent assistance and execution.

Product Architecture

Five-Layer Integrated Architecture · Three Wings Enablement

L5 Business Applications	Collaborative Design	Data Acquisition	Operation Monitoring	Risk Early Warning	NPT Management	ROP Optimization	Resource Scheduling	Knowledge Application
L4 Intelligent Execution	Condition Recognition	Risk Warning	Intelligent Q&A	RAG Evidence Chain	Auto Reports	Agent Orchestration		
L3 Resource Hub	Drilling Data	Graphic Templates	Algorithm Models	Rule Engine	Knowledge Base	SOP / Cases	Report Templates	
L2 Business Ontology	**Organized by Object, Business, Work, Discipline and Process Domains to define the minimum business nodes for drilling and form a unified business semantic framework.**							
L1 Data & System Connectivity	Real-time Field Data	Mud Logging	MWD/LWD	Video Streaming	Daily Reports	3rd-party Software	ERP/Supply Chain	Data Lake

Jurassic Software

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Core Business Scenarios

Collaborative Drilling Design & Software Integration

- Project creation, task assignment, design review and progress tracking
- Bi-directional integration with Landmark, Compass, Pipesim and other professional software
- Auto calculation, professional graphics and Word report generation

Multi-Discipline Data Acquisition at the Source

- Support manual, daily report parsing, real-time and offline data acquisition
- Edge acquisition boxes connect drilling instruments, MWD/LWD, videos and more
- Support data type validation, required fields, regular expressions, cross-field validation, and cross-row validation.

Drilling Operations One-Screen Monitoring

- Real-time key parameters and alerts
- GIS well location, single & multi-well views, operation timeline
- Integrated view of wellbore, trajectory, formation, daily reports, design comparison and exceptions

Risk Early Warning & Closed-Loop Management

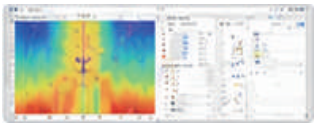
- Parameter anomaly alerts and risk rule configuration
- Covering well kick, loss circulation, stuck pipe, swab/surge, wellbore instability, bit balling and more
- Closed-loop: alert → expert confirmation → action → feedback → knowledge capture

NPT Fine Management

- Record waiting events and analyze Top 5 NPT categories
- Multi-dimensional analysis by well, section, run, operation, rig, time
- From after-the-fact statistics to process identification, root cause analysis and improvement tracking

ROP Optimization & Parameter Recommendation

- ROP analysis, MSE heatmap, bit selection and offset well parameter benchmarking
- Match similar sections/conditions and provide parameter recommendations
- Closed-loop: identify → recommend → execute → validate



Why JuraDOM is Different?

Not A Stand-alone Software

Built on OiO, JuraData, graphic components, knowledge graph, rule engine, models and RAG to form a professional drilling application system.

Not A Traditional Drilling Management System

Organized by OiO 5D business ontology to unify objects, processes, roles, data, graphics, rules and knowledge.

Not A Generic Real-time Monitoring Dashboard

Transform continuous operations into drilling operation portraits for condition understanding, exception identification and closed-loop management.

Not A Single-point AI Warning Tool

Combine rules, models, RAG and evidence chain with expert confirmation for explainable, traceable and reviewable risk assistance.

Not Replace Low-code/BI Platform

Come with drilling domain objects, graphics, rules, knowledge and intelligent agent templates tailored for drilling.

Product Value

Trusted Data

Build data during the process instead of after-the-fact assembly, improving completeness, consistency and traceability.

Transparent Management

From phone calls and manual reports to real-time visibility of operations, exceptions and key milestones.

Efficient Engineering Analysis

Identify optimizable sections, benchmark historical conditions and reduce trial-and-error reliance on experience.

Experience Accumulation

Capture risks, NPT root causes, parameter optimization and resolution processes as organizational knowledge for reuse.

Scalable Scenarios

As a vertical application on OiO, continuously extend intelligent agents and scenario applications to create more value.

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