JuraReportX

AI-assisted technical report generation

Based on OiO foundational and intelligent services and driven jointly by a business-ontology model and a general-purpose large language model, JuraReportX connects enterprise data, specialist outputs, and components to generate initial drafts of oil and gas upstream analysis, research, evaluation, summary, briefing, and other specialist reports.

Operating context

Monthly production-performance reports as an example

Each month, as production changes across blocks and wells, business staff organize data, update charts, and write explanatory text for analysis and briefings.

01 Materials are dispersed, and definitions are difficult to align

Data and outputs reside in different systems, with inconsistent objects, periods, and versions, requiring searches and verification before each use.

02 Similar reports are repeatedly prepared

Data retrieval, chart creation, and explanatory writing are repeated; structure and experience remain in individual documents, making them difficult to reuse directly in the next task.

Capabilities and value

01 Generate reports from enterprise data

Corresponds to items 2 and 3: match connected data and specialist outputs to the task, invoke chart components to create graphics, and reduce manual transfer, organization, and repeated chart creation.

Reviewable outputs: data tables and specialist graphics

02 Continuously reuse knowledge and experience

Corresponds to item 1: retain and reuse report structures, section requirements, and graphic templates; after changing the object or period, retrieve current-period data and organize the content anew.

Reviewable outputs: reusable templates and drafts for new periods

03 Reserve time for specialist judgment

Corresponds to item 4: generate section explanations from data and charts, organize a complete draft from the template, and reduce content assembly, so specialists can focus on refining the analysis and conclusions.

Reviewable output: a report draft awaiting specialist refinement

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Workflow and application

OiO platform foundation | Foundational services + intelligent services

Business ontology: clarify object, indicator, and resource relationships General-purpose large model: understand requirements, parse report samples, and generate text

Inputs

Enterprise data lake and business systems Specialist analysis outputs and historical report samples

Illustration of the business chain; data, outputs, and components must be integrated and adapted first.

Product workflow

1. Create a report template
Configure manually, parse a sample, or generate one from requirements

2. Acquire enterprise data and outputs
Match and retrieve by minimum business unit (MBU)

3. Invoke chart components
Generate specialist graphics from business data and graphics templates

4. Generate and organize the report
Write explanations using data and charts and compile them into a draft

Outputs

Complete report draft

Table of contents and sections Data tables and specialist graphics Evidence-based explanations

Support conversational adjustment of wording

Specialists add causal explanations, verify applicable conditions, and refine conclusions before review and finalization.

Application example | Monthly production-performance report

Input current-period and historical monthly well data, event records, and a monthly-report template to

generate trend charts, change tables, and section explanations and organize them into a report draft.

Product capabilities and usage conditions

Coverage: templates, data retrieval, chart creation, basic statistics, and draft preparation.

Dependencies: OiO services, data integration, and template and component adaptation.

Start with one representative report

Bring a report sample and available data to a working discussion,

and jointly define the report scope, inputs, and completion criteria.

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Application and deployment

Complex specialist calculations rely on existing software or output services.