JuraDataHub

Data exchange and collaboration across specialist applications

Data exchange and collaboration across specialist applications. Helps geoscience, research, and IT staff connect data inputs and recover results in cross-software studies using adapters, model mapping, and bidirectional conversion, for rule-based and traceable exchange.

OPERATING CONTEXT

Across well-log interpretation and geological modelling, specialists work between Geolog and Petrel. Inconsistent formats and models cause repeated export, organization, and conversion; fragmented rules make result handoffs hard to trace or reuse.

EXPECTED RESULT **A reviewable chain of data input, results return, and archiving.**

THREE VALUES

01

Connect cross-software data handoffs

File, API, and database adapters, with mapping and conversion, send OiO data to Geolog; interpretation results then go to Petrel.

Basis: V1.1 product solution and IPO workflow demonstration.

02

Reuse rules and control the process

Ontology mapping, conversion rules, task configuration, and monitoring reduce ad-hoc handling and support exchange error localization and quality checks.

Basis: exchange-management screens, mapping rules, and task configuration can be checked.

03

Return results and archive under agreed rules

Geological-model results return to OiO through conversion and exchange services for later sharing and reuse; specialists review them.

Basis: sample combined workflow; actual results require field validation.

TYPICAL APPLICATION

OiO → **Geolog** → **Petrel** → **OiO**

Typical chain: OiO → Geolog → Petrel → OiO. OiO supplies logging, mud-logging, drilling, and other data; JuraDataHub converts it and imports it through plug-ins into Geolog and Petrel work areas. Geological-model outputs return to OiO for archiving. Actual exchange results require confirmation in on-site joint validation.

Discuss a pilot

Choose one IPO exchange chain to demonstrate and validate.

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Product materials / Demo.

One reviewable path from input to archive

JuraDataHub exchange workflow

Every stage is explicit. Data passes through adapters, governed mapping and conversion, specialist applications, and a manual review gate before accepted results return to OiO for later research or archiving. Exchange is bidirectional through JuraDataHub.

01 OiO

OiO source data

- Wells
- Well logs
- Mud logs
- Drilling
- Laboratory analyses

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Adapters and data acquisition

- Format adaptation
- Interface connectivity
- Data standardization

03 Geolog

Well-log interpretation and evaluation

- Log interpretation
- Formation evaluation
- Interpretation results

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Model mapping and target-format conversion

- Ontology mapping
- Format conversion
- Rule configuration

05 Petrel

Geological interpretation and modeling

- Geological interpretation
- Geological modeling
- Model results

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Plug-in import and results return

- Plug-in import
- Results conversion
- Quality checks

07 OiO

OiO results archive

- Well-log interpretation results
- Model results
- Research archive

MANUAL REVIEW GATE Specialists review interpretation and model results; accepted results proceed to later research or archiving.

INTEGRATION CONDITIONS

STANDARD CAPABILITIES

Adapters, ontology mapping, exchange services, configuration, and monitoring.

PROJECT CONFIGURATION

Mapping rules, interface parameters, and environment and permission adaptation.

DEPENDENCIES

Software versions, open interfaces, third-party licenses, and read/write permissions.

Input conditions: sample data, interface licenses, write permissions, and software versions. Scope boundary: interpretation and result review remain the responsibility of business specialists.