JuraComponents

Reusable components for oil and gas applications

For oil and gas exploration and development application teams, JuraComponents combines technical components with business templates, data, and parameters to create manageable, configurable, and callable business components that support rapid application development and continuous expansion.

Operating context

Building a single-well analysis and research application

Application developers need to integrate production curves, well-log interpretation displays, and specialist tools into one interface and adapt them to different wells and work areas.

01 Similar functions are repeatedly developed

Inconsistent component granularity, interfaces, and data definitions make existing capabilities difficult to reuse directly.

02 Changing requirements drive code changes

Track, style, and layout adjustments depend on development; components are maintained separately, and upgrades are difficult to synchronize.

Capabilities and value

01 Reduce duplicate development

Unify component descriptions and interfaces by business node, making existing specialist capabilities easier to discover, select, and integrate again.

02 Respond faster to business requirements

Use templates, data mappings, and parameter configuration to adjust curves, tracks, and presentation styles with less repeated coding.

03 Lower ongoing maintenance costs

Manage technical components and business templates in separate layers, with centralized registration, testing, and publishing to support unified capability maintenance and scenario expansion.

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Workflow and application

Solution overview: inputs, configuration and publishing, and application outcomes

Inputs

Enterprise data services
Business standards and templates
Existing specialist tools

Product workflow

1. Define components by business node

Clarify business ownership, granularity, inputs, and outputs

2. Configure templates, data, and parameters

Select specialist components and map fields and invocation parameters

3. Preview, test, publish, and assemble

Select components from the component store and integrate them into applications through services

Outputs

Standard business components
Specialist charts and graphics
Composable business functions

Business users publish components after confirming data accuracy and alignment with specialist conventions.

Supported by the OiO Core business ontology Technical components: charts / reports / specialist graphics / tools

Typical application and practical basis

An integrated exploration and development collaborative research platform uses configuration to build visualization components for single-well displays, specialist plates, plan maps, tubing-string diagrams, 3D model views, and seismic displays. These serve multiple research scenarios and support specialist-data visualization, analysis, and component reuse.

Adoption and integration

Provides technical components, template configuration, component management, and application assembly. Customers provide business standards, data interfaces, and permissions and jointly confirm the applicable scope. Third-party tools must meet interface, runtime-environment, and licensing requirements.

Start with one typical task

Select a set of commonly used maps and a de-identified dataset to validate configuration-based mapping, service invocation, and reuse across scenarios.