

What's New in Workflow and Decisions: Open Editions

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Agenda

- Introduction
- Product Overview
- Open Source & Open Standards
- Demonstration
- Q&A

Workflow and Decisions are important building blocks to any automation strategy

Gain end-to-end process visibility plus the ability to quickly change business rules and process flows.



Automate processes

- Model processes
- Straight through processing
- Human intensive task management
- Adhoc case management
- Build UIs



Automate business decisions

- Extract rule logic
- Model decisions
- Incorporate predictive models



Monitor and optimize

- Monitor
- Track KPIs
- Build dashboards
- Optimize applications

IBM offers workflow and decision automation for all styles of work

Workflow

Streamline processes and tasks and enable visibility across the organization



LOB Builder / Citizen Developer



IT Developer

IBM Business Automation Workflow

- Low code
- Powerful UX tools
- Collab. development
- Centralized lifecycle management and source control
- AI-infused advanced human task management
- Enterprise Content Management in the box
- Operational intelligence, analytics and no-code dashboards
- Cross-instance task federation
- SaaS, traditional, and hybrid options

IBM Workflow Process Service

- Low code
- Powerful UX design tools
- Collaborative development
- Small footprint (embeddable Single container)
- Deploy and manage per solution
- Fast setup
- Interoperable with BAW
- BPMN only (no case or content)

IBM Process Automation Manager Open Edition

- Open source
- Developer friendly tools
- Standards based (CMMN, BPMN, DMN)
- "Build your own" container
- Kogito (for decisions) and traditional app server deployments

Decisions

Drive efficient, personalized customer experiences



Business Analyst



Citizen Developer



IT Developer

IBM Operational Decision Manager

- Feature rich
- High-performance
- Support for complex decisions, bottom-up approach
- Centralized management and governance
- Testing and simulation
- Many deployment options including on-prem, containers, z/OS, SaaS)
- Large customer base

IBM Automation Decision Services

- Low code
- Machine Learning integration
- Top-down modeling approach
- For new decision projects
- Container deployment
- Modern architecture
- Tight integration with Business Automation platform

IBM Decision Manager Open Edition

- Open source
- Developer friendly tools
- Standards based (DMN) "Build your own" container
- Kogito (KNative) and traditional app server deployments
- Micro-service architecture

IBM Process Automation Manager Open Edition

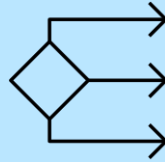
IBM Decision Manager Open Edition

Application development platforms for developers to create modern, cloud-native applications that automate business operations



IBM Process Automation Manager Open Edition

*Process Automation and
Decision Automation*



IBM Decision Manager Open Edition

Decision Automation

Automate business processes and decisions



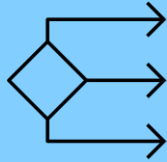
IBM Process Automation
Manager Open Edition

*Process Automation and Decision
Automation*

Process Automation Manager is a platform for modeling and automating business processes, including case and decision support

- Cloud-native development and execution of process automation apps
- Collaborative modeling tools
- Native support for BPMN 2.0
- Ad-hoc case management
- Powerful UX design tools
- Full Decisions management support included (IBM Decision Manager Open Edition)
- Includes limited-use license of IBM RPA

Automate business decisions



IBM Decision Manager
Open Edition

Decision Automation

Decision Manager is a platform for modeling and automating business decisions with Decision Model & Notation (DMN) and business rules

- Cloud-native development and execution of decision automation apps
- Collaborative modeling tools
- Native support for DMN 1.4
- ML models supported via PMML
- Complex Event Processing
- Includes limited-use license of IBM RPA

Architected for the Cloud

Microservices architecture provides more efficient ways to develop, deliver, and integrate systems and applications

- Improve scalability, reliability, responsiveness, agility and productivity
- Deliver more features, faster
- Avoid vendor lock-in
- Ensure cost-effectiveness

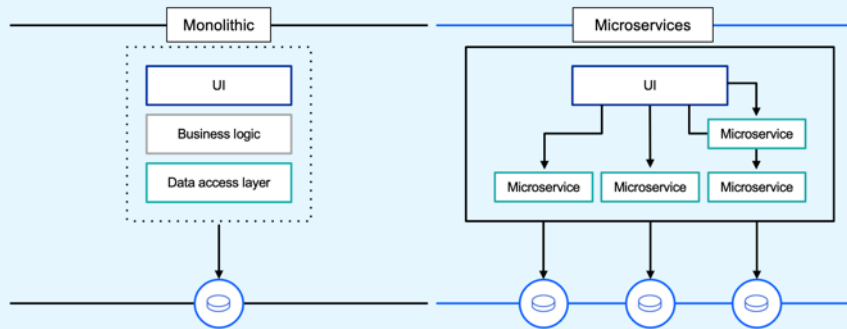


Serverless Decision Management

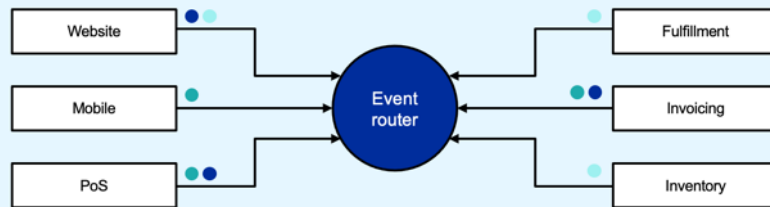


Kogito provides cloud-native business automation for building intelligent applications, backed by battle-tested capabilities

Monolithic → Microservices

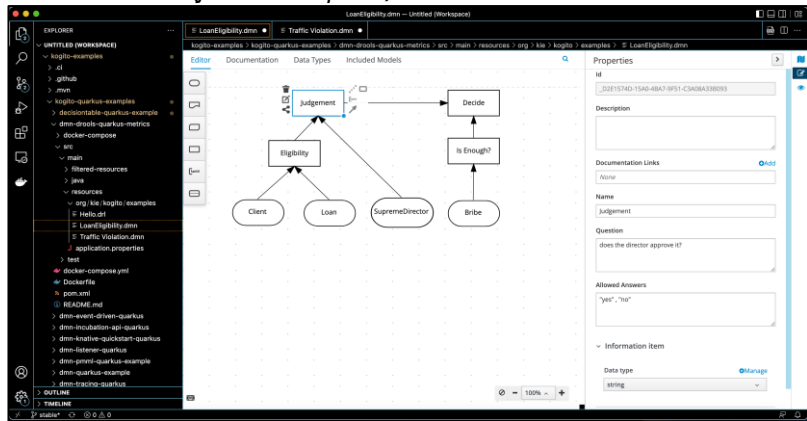


Event Driven



Developer-friendly tools

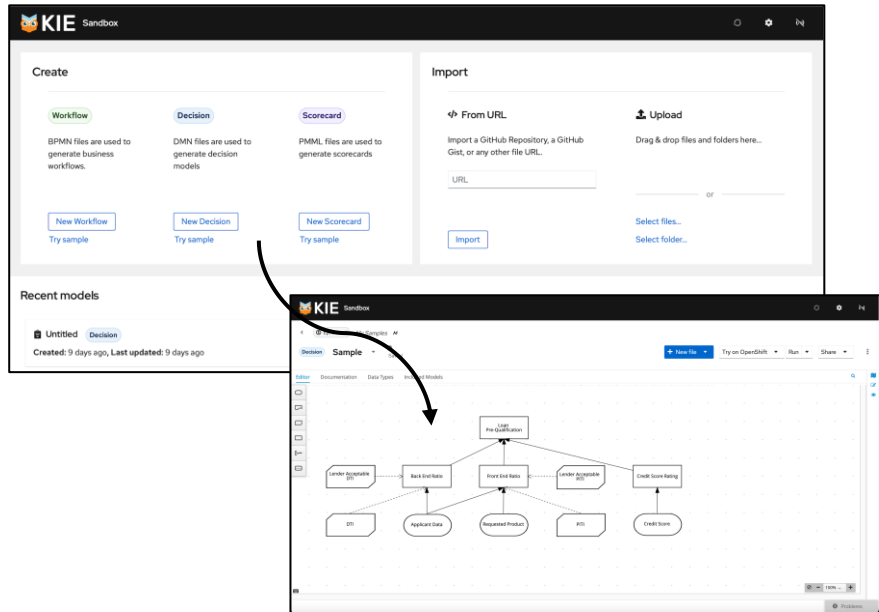
VS Code IDE (for developers)



MS Excel (for decision tables)

	A	B	C	D
1	RuleSet	org.kie.kogito.queries		
2	Unit	LoanUnit		
3	Import	org.kie.kogito.queries.LoanApplication		
4	Queries	query FindApproved \$! : /loanApplications[approved] end		
5	Notes	query FindNotApproved \$! : /loanApplications[!approved, \$!id : id, \$!amount : amount] end		
6				
7				
8	RuleTable LoanRule			
9	CONDITION	CONDITION	CONDITION	ACTION
10	\$! : /loanApplications			
11	applicant.age \$param	deposit \$param	amount \$param	modify(\$!) { setApproved(\$param) };
12	age	deposit	amount	approved?
13	>= 20	< 1000	<= 2000	true
14	>= 20	< 1000	> 2000	false
15	>= 20	>= 1000	<= maxAmount	true
16	>= 20	>= 1000	> maxAmount	false
17	< 20			false

KIE Sandbox (for business users)



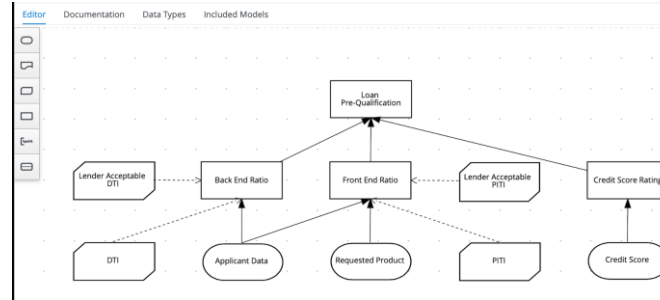
- Limitless flexibility to build your apps exactly the way you want
- Be productive immediately
- Create better quality applications

User-friendly models and tables

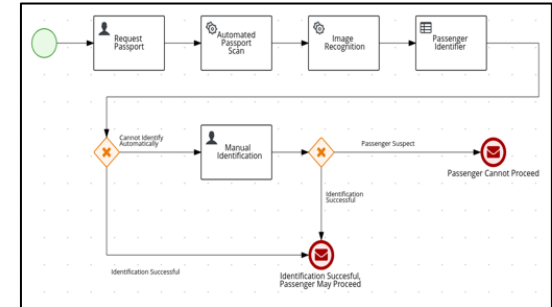
Easy-to-use models and tables help communicate requirements and logic and improve collaboration with business teams

- Visualize decision and process models
- Involve business users early
- Reduce rework

Decision Models (DMN)



Process Models



Decision Tables (Excel)

	A	B	C	D
1				
7				
12	age	deposit	amount	approved?
13	>= 20	< 1000	<= 2000	true
14	>= 20	< 1000	> 2000	false
15	>= 20	>= 1000	<= maxAmount	true
16	>= 20	>= 1000	> maxAmount	false
17	< 20			false

Community to Enterprise

The Open Source development model

1

Participate

We create, lead, and contribute in community-powered upstream projects.

2

Integrate

We consolidate upstream projects, fostering open community platforms, in order to build enterprise offerings

3

Stabilize & Productize

2nd integration, validation, test, Q&A and packaging of a stable, secure and enterprise-ready version. Long term maintenance commitment, 24x7 support, and third-party certifications



Community (Upstream) Projects



Direct contribution back to communities / upstream projects

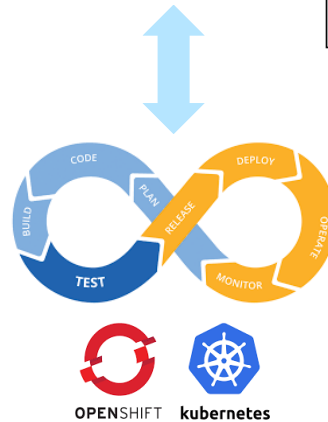
Demo – Serverless Decision Service

- Created using published Maven archetype (*configurable*)
- Written in VS Code IDE, published to KIE Sandbox
- Rules expressed as both DMN models and DRL business rules
- Packaged as a cloud-native Quarkus micro-service
- Multiple levels of testing
- Both developers and business users share the same enterprise GIT repository, using GIT governance
- Enterprise GIT repository used for CI/CD pipeline for builds, testing, and deployment

Developer Tools



Business User Tools



Q&A



