AEGIS

Rules Engine Architecture

Building flexible business rules systems with decision tables, scoring models, and governance

Rules   Tables   Scoring   Engine

Why Rules Engines?

❌ **Without Rules Engine**
- Rules scattered in code
- Developer-dependent changes
- Long release cycles
- Hard to audit/trace

✅ **With Rules Engine**
- Centralized rule management
- Business user self-service
- Real-time rule updates
- Full audit trail

Rules Engine Comparison

Engine	Type	Best For	Key Features
Drools	Open Source	Complex inference	RETE algorithm, DMN support
AWS Rules Engine	Cloud Native	IoT, serverless	SQL-like syntax, integrations
Camunda DMN	Standard	Decision modeling	Visual tables, portable

Decision Tables

Example: Loan Approval Decision Table

Credit Score	Income	Debt Ratio	Decision
≥ 750	≥ $100K	< 30%	Approved
700-749	≥ $75K	< 40%	Approved
650-699	≥ $50K	< 35%	Manual Review
< 650	Any	Any	Declined

Common Use Cases

Industry	Use Case	Rule Type
Finance	Credit decisions, fraud detection	Decision tables, scoring
Insurance	Underwriting, claims routing	Decision trees, tables
Retail	Pricing, promotions	Scoring, tables
Healthcare	Prior auth, clinical pathways	Decision trees
Government	Eligibility, benefit calculation	Decision tables

Build Your Rules Engine

Let us help you design and implement a flexible, governed rules engine for your business logic.

Contact Us

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