Feature/Ca pability	Description	Value / Benefit
Extensive Metadata	Includes attributes such as ruleName, uid, domain, description, appr ovedBy, createdDate, status, etc.	<ul> <li>Provides governance e and auditability.</li> <li>Allows easy version management and change tracking.</li> <li>Improves collaboration with clear, inrule documentation.</li> </ul>
Security & Permissions	Defines who can view, edit, copy, or execute the rule (security.permissions). Also supports log encryption, field-level encryption, etc.	<ul> <li>Ensures compliance with internal or external regulations (e.g., GDPR).</li> <li>Manages finegrained access control to sensitive rules and data.</li> </ul>
Caching & Performanc e	Offers a cache block with parameters like cachable, ttl, and a custom cache key.	<ul> <li>Allows caching of rule results to reduce compute overhead for frequently-run rules.</li> <li>Improves performa nce and lowers response times.</li> </ul>
Rich Data Context	Defines data sources (databases, APIs, GraphQL, AWS Lambda, S3), connections, queries, and how to fetch/transform/aggregate data in a dataContext block.	<ul> <li>Centralizes data fetching and transformation logic.</li> <li>Allows a federated approach for multiple data sources in a single rule definition.</li> </ul>
Advanced Rule Logic	Supports logical operators (and, or, not), array handling (any, all), aggregator logic	• Enables complex conditions (e.g., aggregator, nested

Feature/Ca pability	Description	Value / Benefit
	(sum, count), functions, external service calls, and more.	filters) without additional code.  • Broad set of operators for real-world scenarios (e.g., partial string matches, inDataset checks, etc.).
Preconditions & Postconditions	A preCondition block checks data or conditions before running the main logic. Postrule actions (onSuccess, onFailure, onError, afterRun) define follow-up steps.	<ul> <li>PreCondition ensur es required data/state is present before evaluating.</li> <li>PostCondition or actions let you orchestrate subsequent workflows.</li> </ul>
Actions & Orchestration	Defines actions for each outcome path (success, failure, error). Supports sending emails/SMS, logging, queue operations, invoking other rules, custom scripts, etc.	<ul> <li>Combines rule evaluation with wor kflow automation.</li> <li>Minimizes the need for separate orchestration services.</li> </ul>
Logging & Monitoring	Configurable logging (logging block) with defaultLevel, defaultDestination, app endTimestamp, etc. Also includes performance metrics like expectedExecutionTimeMs and alertThr esholdMs.	<ul> <li>Provides observabili ty into rule execution (info, debug, error logs).</li> <li>Allows monitoring of execution time and proactive alerting on timeouts.</li> </ul>
Parameteriz ation	A parameters section that defines placeholders (e.g., \$customerId) for dynamic values, each	Allows reusability o f the same rule in multiple contexts by

Feature/Ca pability	Description	Value / Benefit
	with mandatory, default, and description fields.	passing different parameter values.  • Makes the rule flexible and environmentagnostic.
Rule Lifecycle Managemen t	<pre>Includes fields like ruleVersion, dependencies, usageScope s, ruleExpiry, etc.</pre>	<ul> <li>Enables versioned deployments of rules with golive and expiry dates</li> <li>Tracks dependencies among rules or with external references.</li> </ul>
Error Handling	onError sections define fallbacks, retries, or custom behaviors if an exception occurs during rule evaluation.	<ul> <li>Ensures robustness by handling unexpected errors gracefully.</li> <li>Minimizes system crashes with fallback strategies.</li> </ul>
Post- Execution Metadata	A result block describing how outcomes or extracted data should be structured and returned (failureReasons, returnValues, etc.).	<ul> <li>Facilitates auditing by storing detailed result data.</li> <li>Simplifies downstre am consumption of results, since it's in a known format.</li> </ul>