Atlassian Forge nodejs24.x | Rovo Agent + 4 Actions | Atlassian MCP Server | Teamwork Graph

ClausePulse

Deterministic Contract Renewal, Commercial Clause Risk & Vendor Procurement Approval Copilot for Jira Service Management and Confluence.

Stop Surprise Auto-Renewals

Computes exact opt-out cutoffs and 30/60/90-day annualized spend at risk across active vendor MSAs.

Playbook-Grade Redlines

Scores uncapped liability, 7–12% escalators, and missing DPA/SOC2 clauses with instant counter-proposals.

Zero Paid LLM Keys

100% deterministic TypeScript policy engine inside Forge; Rovo handles natural-language orchestration.

Why SaaS Procurement Leaks Budget & Stalls Quarter-End Signoff

Critical contract terms live in Confluence PDFs/pages while renewal approvals stall in Jira Service Management queues.

60–90 Days

Silent Auto-Renewal Traps

Opt-out notice windows expire before Legal finishes redlining, locking Finance into an unwanted 12-month term.

7%–12%

Unchecked Price Uplifts

Annual renewal escalators slip past procurement reviewers without benchmark comparisons against incumbent baselines.

4+ Teams

Fragmented Approval Context

Legal, InfoSec, Finance, and RevOps each re-read the same MSA for liability caps, GDPR/DPA, SOC2, and Net-30 terms.

What Business Teams Need Inside Atlassian

- **Deterministic auditability:** CFOs and General Counsel cannot rely on stochastic LLM guesses for dollar exposure or notice dates.
- **Zero-friction workflow:** Live inside the JSM procurement ticket, Rovo chat, and external MCP clients without extra SaaS seats.

Forge + Rovo + MCP + Teamwork Graph Unified Architecture

Runs natively on Atlassian Forge `nodejs24.x` with zero external LLM API keys or egress dependencies.

1. Jira Issue Panel

Custom UI React 19 workbench (`static/panel`) embedded in JSM procurement tickets with live countdown strip & heatmap.

2. Rovo Agent & Actions

`ClausePulse Copilot` + 4 typed `rovo:action` handlers scoring clauses, deadlines, briefs, and vendor terms.

3. Atlassian MCP Server

`rovo:mcp` exposes 4 schema-validated tools (`audit_contract_clauses`, `forecast_renewal_exposure`, etc.).

4. Teamwork Graph

Links `VendorEntity` ↔ `ConfluenceContractPage` ↔ `JiraApprovalTicket` ↔ `RenewalDeadlineNode`.

```
manifest.yml (nodejs24.x)
 ├── jira:issuePanel      ──▶ static/panel/dist (Vite + React 19 + @forge/bridge)
 ├── rovo:agent           ──▶ ClausePulse Procurement & Legal Copilot
 ├── rovo:action (x4)     ──▶ scoreClauseRisk · calculateRenewalDeadlines · generateApprovalBrief · compareVendorTerms
 └── rovo:mcp (x4 tools)  ──▶ audit_contract_clauses · forecast_renewal_exposure · build_cfo_approval_memo · query_vendor_graph
```

Deterministic Commercial Playbook Scoring (`clauseAnalyzer.ts`)

Evaluates MSA/DPA text against 6 weighted commercial rules (0–100 score) and outputs exact redline counter-proposals.

Rule ID	Clause Category	Trigger Pattern	Severity	Playbook Counter-Proposal
`CP-AUTO-01`	Auto-Renewal Trap	Auto-renew with ≥60d notice window	CRITICAL (+28)	30-day notice or explicit written opt-in renewal
`CP-LIAB-02`	Liability Cap	Uncapped / unlimited customer indemnity	CRITICAL (+30)	Mutual cap at 12 months fees paid/payable
`CP-UPLIFT-03`	Price Escalator	Annual uplift >5% or uncapped CPI	HIGH (+20)	Cap renewal increase at 3% or CPI, whichever is lower
`CP-DPA-04`	Data & Security	Missing DPA / GDPR / SOC2 Type II	HIGH (+18)	Attach standard DPA + annual SOC2 Type II attestation
`CP-PAY-05`	Payment Terms	Net-15 or immediate due-on-receipt	MODERATE (+10)	Standardize to Net-30 from undisputed invoice

Interactive Clause Redline Heatmap + Live Sandbox

Legal & Procurement click any finding card in the JSM panel to inspect matched excerpts, business impact, and copy-ready redlines—or paste custom vendor text into the Live Clause Audit Sandbox for instant re-scoring.

Opt-Out Deadline Calculator & Spend-at-Risk Strip (`renewalScheduler.ts`)

Computes exact non-renewal cutoff dates (`renewalDate - noticeDays`) and groups annualized exposure into action buckets.

$597,000

Portfolio Spend

5 active SaaS vendor MSAs tracked across Engineering, Design & GTM.

$384,000

90d Spend at Risk

Annualized value auto-renewing unless notice is sent before cutoff.

≤ 30 Days

CRITICAL_30D

Immediate non-renewal notice & executive escalation required.

31–60 Days

WARNING_60D

Active Legal redline & Finance benchmark negotiation queue.

1-Click CFO Approval Memo (ADF + Markdown)

Generates an executive signoff brief containing annualized spend at risk, opt-out deadline, clause risk tier, and redline checklist—formatted as native **Atlassian Document Format (ADF)** JSON for Jira comments or clean Markdown.

Lookahead Window Switcher (30d / 60d / 90d)

Finance leads toggle the lookahead horizon in real time to prioritize urgent quarter-end renewals and export exact cutoff dates.

4 Strictly Typed MCP Tools + Companion `skill.md`

Exposes procurement intelligence over Atlassian's `rovo:mcp` module for Rovo and external AI coding/ops agents.

`audit_contract_clauses`

Input: `vendorName`, `contractText`, `annualSpendUsd`.
Returns risk score, tier, findings, and redlines.

`forecast_renewal_exposure`

Input: `referenceDateIso`, `horizonDays`.
Returns 30/60/90d buckets and total dollars at risk.

`build_cfo_approval_memo`

Input: `vendorId`, `includeRedlines`.
Returns executive signoff brief in ADF JSON & Markdown.

`query_vendor_graph`

Input: `vendorId`.
Traverses Teamwork Graph nodes & edges for full lineage.

Companion `skill.md` Agent Playbook

Documents exact tool schemas, parameter constraints, deterministic scoring semantics, and recommended multi-step workflows so any MCP-compatible agent can audit a vendor renewal end-to-end without guesswork.

Verified End-to-End: Unit Tests, Type Safety & Headless Chrome QA

Every module—from Forge manifest validation to live Custom UI interactions—is covered by automated checks.

23 / 23

Vitest Passing

4 test suites: `manifest`, `clauseAnalyzer`, `renewalScheduler`, `rovoMcpGraph`.

0

Console & Page Errors

Verified in headless Chrome across all 4 workbench tabs & interactive flows.

$0

Paid LLM API Cost

100% deterministic TypeScript engine; zero external API keys or token bills.

0

TypeScript Errors

Clean `tsc --noEmit` & Vite production bundle with relative `--base=./`.

Verified Interactive User Flows (Local & GitHub Pages)

- Lookahead Window toggle (`30d / 60d / 90d`) recalculates exposure
- Vendor Queue selection + Clause Card click-to-inspect redlines
- Teamwork Graph Lineage traversal across 4 entity types
- Rovo Copilot Simulator & CFO Memo (Markdown / ADF JSON)

Built for *Apps for Business Teams* + 3 Bonus Tracks

Designed for Legal, Finance, Procurement, and RevOps teams operating inside Jira Service Management & Confluence.

Primary: Apps for Business Teams

Turns JSM procurement tickets into a live renewal & contract risk command center with 1-click CFO/Legal approval memos.

Bonus: Best Rovo Apps

`ClausePulse Procurement & Legal Copilot` with 4 deterministic `rovo:action` handlers for instant risk & deadline answers.

Bonus: Best MCP Server

`rovo:mcp` server exposing 4 schema-validated procurement tools + companion `skill.md` specification.

Bonus: Best Teamwork Graph

Connects Vendor Entities, Confluence MSAs/DPAs, Jira Approval Tickets, and Renewal Deadlines into one queryable graph.