CALM Announcements





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FINOS Fintech Open Source Foundation

THE LINUX FOUNDATION

AN INDUSTRY-WIDE LANGUAGE FOR ARCHITECTURE

CALM
COMMON ARCHITECTURE LANGUAGE MODEL

THE CHALLENGE

Architecture lives in slides and drawing tools. People can read it; machines can't. So reviews are manual, designs drift from what gets built, and AI coding agents have no reliable map of the systems they are changing.

WHAT CALM DOES

CALM turns architecture into code: a version-controlled model that people, pipelines and AI agents can all read and check.

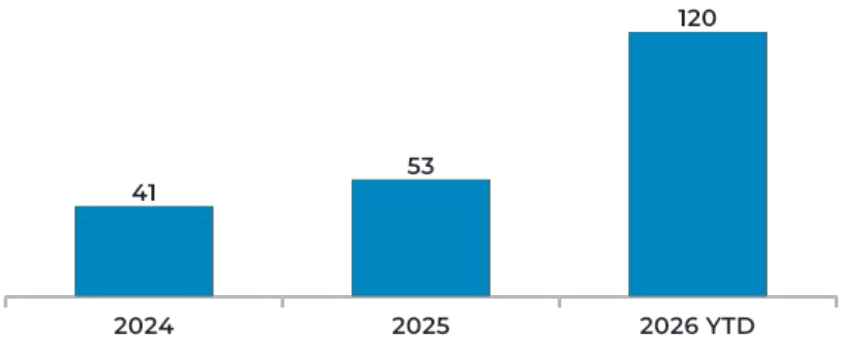
THE JOURNEY

Started at Morgan Stanley, where it has streamlined more than 20,000 deployments. Since entering Incubation the team shipped:

1.0	the specification
CLI + CALM Hub	a command-line tool and a public CALM Hub
Studio	a visual editor
Skills and MCP	AI coding agents
OpenSSF L3	top-tier security baseline compliance
VS Code	a Visual Studio Code extension for authoring and validating CALM

A YEAR OF COMPOUNDING GROWTH

Code contributors per year (LFX)



Distinct people with a code contribution to CALM repositories, bots excluded; 2026 to Nov 2.

"But the real proof is what firms are doing with it."

~60,000

CLI downloads in the past year; monthly downloads up ~8× year on year

2×

contributors per quarter roughly doubled this year

17

organizations contributed code in 2026, up from 6 in 2025 (LFX)

19

maintainers from six organizations — evidence that CALM is filling a real gap in industry

Top 25

public GitHub repositories by financial services contributors, second year running

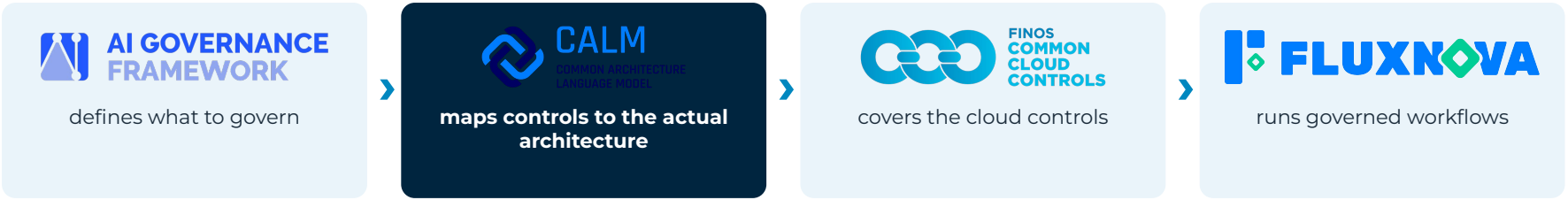
242

first-time FINOS participants brought in by CALM this year — more than any other project

Sources: npm download statistics (CLI); LFX Insights (contributors, organizations); 2026 State of Open Source in Financial Services; FINOS awards scorecard (first-time participants).

A GROWING ECOSYSTEM: GOVERNANCE AS CODE AND AI AGENTS

CALM is the architecture layer of the FINOS Governance-as-Code pipeline



VENDORS ARE BUILDING ON IT

Moderne
creators of OpenRewrite

Moderne Prethink
generates CALM models from codebases as context for AI coding agents

ArchRails

ArchRails
gates AI-generated pull requests against CALM — every verdict cites the exact CALM node

OpsFlow

OpsFlow
builds CALM Studio, the visual editor contributed to the project

Open standard, no lock-in: the same CALM file feeds every tool. moderne.ai · archrails.io · calm.finos.org

CALM CLI

The backbone: every other tool builds on these operations

```
$ npm install -g @finos/calm-cli

# Generate an architecture from a pattern
$ calm generate -p pattern.json -o architecture.json

# Validate an architecture against a pattern
$ calm validate -p pattern.json -a architecture.json

# Render a documentation website
$ calm docify -a architecture.json -o ./docs-output

# Generate files from a template bundle
$ calm template -a architecture.json -b ./k8s -o ./out

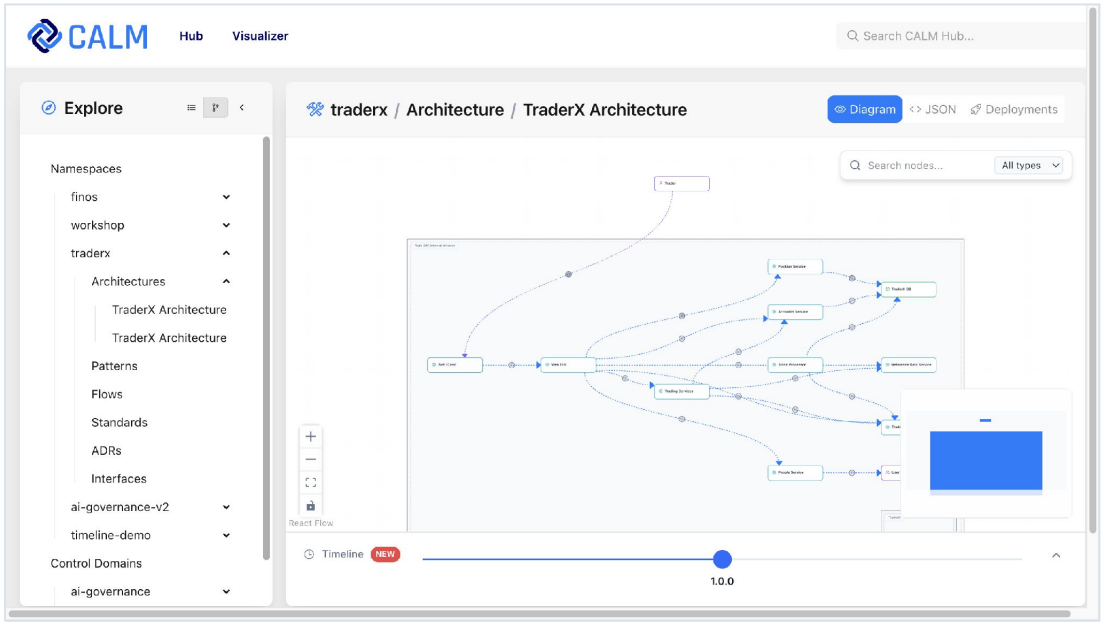
# Report what changed between two versions
$ calm diff -a arch-v1.json -b arch-v2.json
```

ALSO IN THE CLI

- **calm hub**: push and pull architectures, patterns, standards and controls
- **calm workspace**: version a set of related documents and push them to CALM Hub together
- **calm validate --timeline**
- **calm diff** in CI: gate a release when the architecture changes
- Brew install, or Java users take calm-models from Maven Central

CALM HUB

A versioned, searchable architecture repository: the shared source of truth

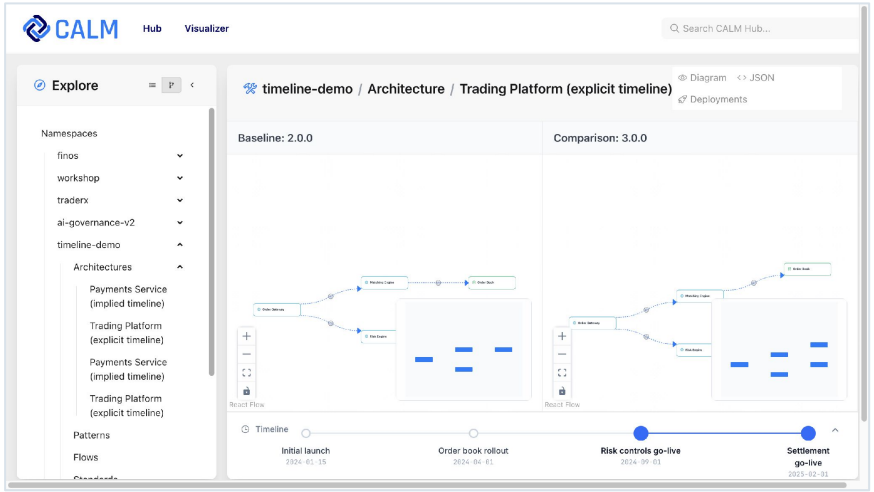


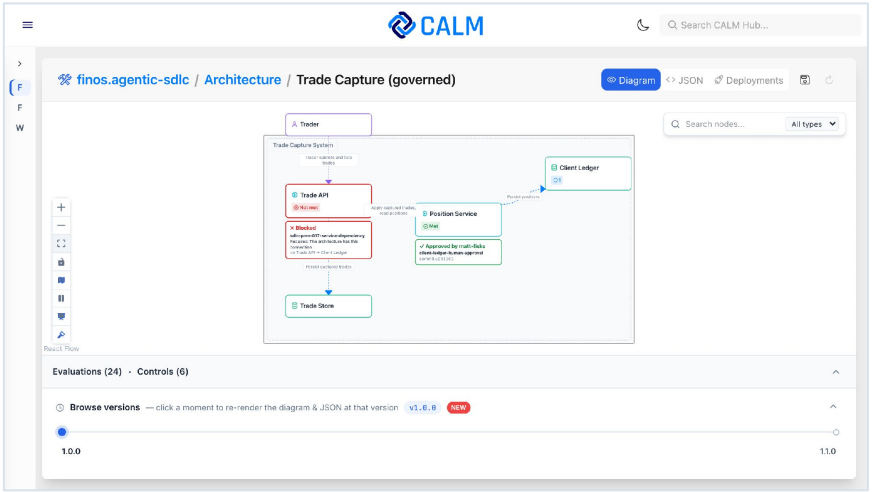
MORE THAN FILES IN GIT

- Versioned releases and snapshots
- Namespaces and entitlements
- Which architectures use a pattern
- Search across the estate
- REST API and MCP for AI tools

CALM HUB: EVOLUTION AND GOVERNANCE

See what changed, and see the evidence on the diagram



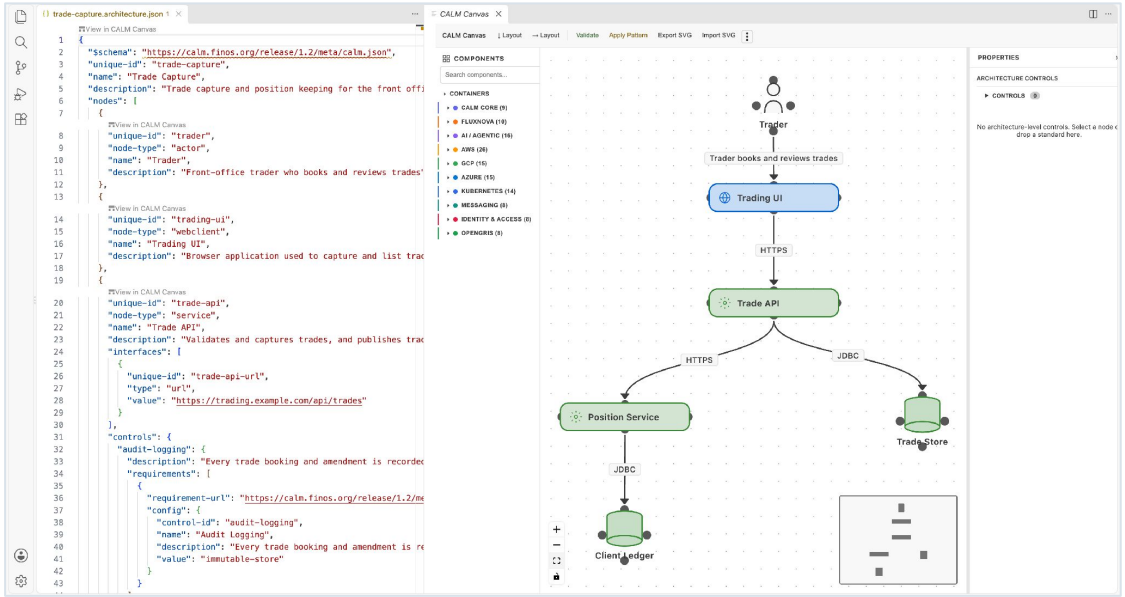


Compare two moments on the timeline

Control evaluations and approvals on the diagram

CALM CANVAS FOR VS CODE

A visual editor beside the JSON: change either one and the other follows



IN THE CANVAS

- Palette of node types
- Drag to connect
- Auto layout
- Validate
- Export SVG
- CALM Hub assets

CALM IN YOUR AI ASSISTANT

One command gives your coding assistant the CALM rules, examples and pitfalls

```
$ calm init-ai -p copilot   # GitHub Copilot
$ calm init-ai -p kiro      # AWS Kiro
$ calm init-ai -p claude    # Claude Code
$ calm init-ai -p codex     # OpenAI Codex
```

WHAT IT INSTALLS

- 14 task prompts: nodes, relationships, flows, controls, timelines and more
- Schema rules, good examples, known pitfalls
- The config file for each assistant

WHAT IT ENABLES

- The assistant writes valid CALM in the IDE
- It knows the node, interface and control types
- Schema errors are found before calm validate

WHAT'S NEXT FOR CALM — AND HOW TO JOIN

CALM
COMMON ARCHITECTURE LANGUAGE MODEL

ON THE PUBLIC ROADMAP

CALM Hub Backing Store as GitHub

GitHub backing store for CALM Hub

CALM Hub Online Editor

A first-class authoring experience with a visual flow builder

Threat Modelling Support and CALM Hub Extensions

Support on CALM Hub for threat modelling and to add company/vendor specific extensions

CALM.FINOS.ORG

GITHUB

HOW TO JOIN

Monthly working group · weekly office hours · github.com/finos/architecture-as-code

"The industry recognises the value of CALM. Today it's how a growing number of firms describe, check and govern what they build — and graduation means it belongs to all of us."

CONTRIBUTION IS GROWING

92

first-time code contributors in 2026 — 27 in all of 2025

120

people contributed code this year — 53 in 2025

17

organizations contributing code — 6 in 2025

19

maintainers from 6 organizations

Morgan Stanley

21 contributors in 2026 — 5 of them new this year, on top of 12 maintainers

NEW IN 2026

Harvey Maunders · Aayush Razdan · Subhav Shrivastav · + 2 more

Fidelity INVESTMENTS

From adopter to maintainer in 2026: the VS Code extension, the Fidelity case study — and a Wednesday talk on validating architecture with CALM

NEW IN 2026

Shivaji Byrapaneni — maintainer, VS Code extension · Apurva Gandhi

Beyond the banks

New maintainers from a mortgage GSE, a vendor and a security company — plus 40+ first-time contributors from the October hackathon wave

NEW IN 2026

Jim Thompson — Freddie Mac — 700+ contributions, now a maintainer · Gourav Shah — OpsFlow — CALM Studio, now a maintainer · Eddie Knight — Sonatype — maintainer, OpenSSF baseline

Source: LFX, code contributions to finos/architecture-as-code, Jan 1 – Nov 2, 2026 (bots excluded); maintainer roster per the CALM graduation release.

ADOPTION IS GROWING: FIDELITY AND RBC

One architecture practice

- CALM is at the center of Fidelity's architecture-as-code practice
- Every design is a versioned package: model, docs, automated checks, human review
- Controls checked at design time and in the pull request; AI agents get trustworthy context
- Now a maintainer — contributed the VS Code extension

Start small, then scale

- Every architecture in RBC's AI Group is moving to CALM — the foundation for Governance as Code
- Enterprise Architecture will accept a CALM file directly in certification
- Capital markets, wealth and technology being brought in: one language for architects
- Paired with the AI Governance Framework to risk-rate and certify AI agents

FIDELITY CASE STUDY

> *"One architecture practice where knowledge, design and governance are captured once, in machine-readable form, tracked and used by associates, pipelines and AI agents." — Rohith Ashok, SVP Architecture, Fidelity*

Citi: CALM at Scale

Denis Urusov, Managing Director, Head of Engineering & Architecture, Data Solutions, Citi



FINOS Fintech Open Source Foundation

THE LINUX FOUNDATION

CITI: KNOW YOUR CODEBASES



Denis Urusov
MD, Head of Engineering & Architecture, Data Solutions

Architecture governance at scale

- Derive the architecture from what is going through CD, not from stale slides
- Scale: 75K repos across 2K apps
- Simple: generate architecture stack: framework, tools, connectivity, SBOMs...
- Complex: is your app resilient enough? Are you compliant with privacy policy?
- Use cases: business capabilities, CD gating, blueprint-to-infrastructure
- Impact analysis: connectivity maps and pseudo-mono-repos
- Ultimate interop: Banks, vendors, peers and FINOS workstreams (e.g., CI/CD controls)

Know Your Codebases: Using CALM to Represent Software Estates

Denis Urusov & Paul Groves, Citi

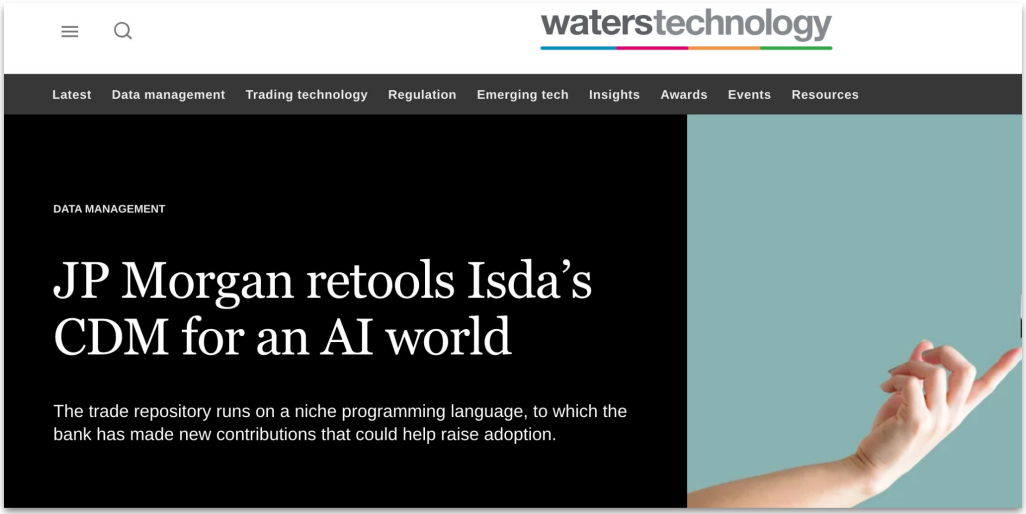
Hall 1 · Today 11:10 AM

THE FULL STORY AT 11:10 — how Citi maps a global estate into CALM, what broke, what it unlocked for AI coding agents, and what we want from the project next

A GROWING ECOSYSTEM, AN AI ENABLER

CDM | COMMON DOMAIN MODEL

FINOS graduated



> *[The CDM] lends itself very well to an AI-centric world because of the way the agents can communicate with the data and the model.*
>
> **Nick Moger, Regulatory Technology Product Director, J.P. Morgan**

TODAY

Data Management Strategies for Implementing AI and the FINOS CDM
Pavan Palle, SMBC · Thomas Healey, ICMA
Hub 3 · 11:10 AM

ISDA AI Agents for CDM & DRR
David Lee, Head of AI, ISDA
Hub 1 · 2:00 PM

Early Preview of the Next Rune DSL Studio
Nick Moger, J.P. Morgan
Hub 3 · 3:50 PM

NEW **CDM for Java Developers (TDH310)**

Hands-on, instructor-led, from Linux Foundation Education and TradeHeader — from the spec to working trade code in one day. In our record-growth press release.