



Adopting CDEvents and Embracing Interoperability



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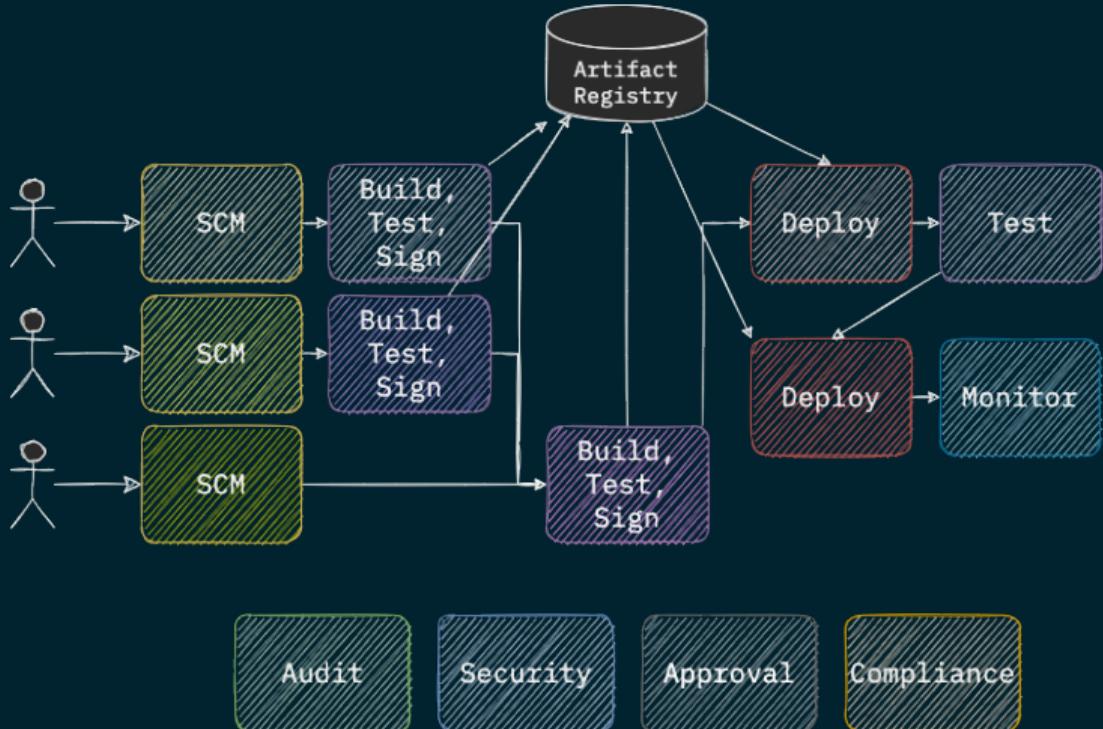
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Software Factory



Software Factory

- › "Glue code" explosion
- › Does not scale
- › Expensive to onboard new services
- › Hard to maintain

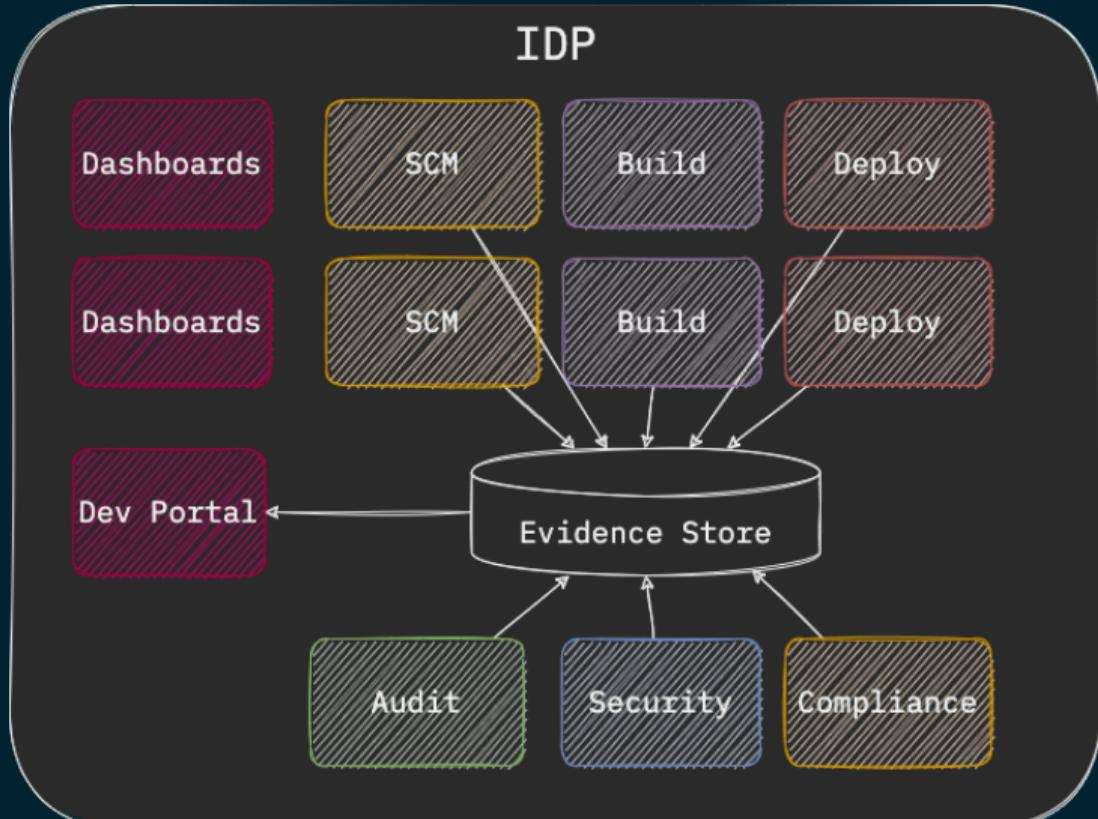


Internal Development Platform

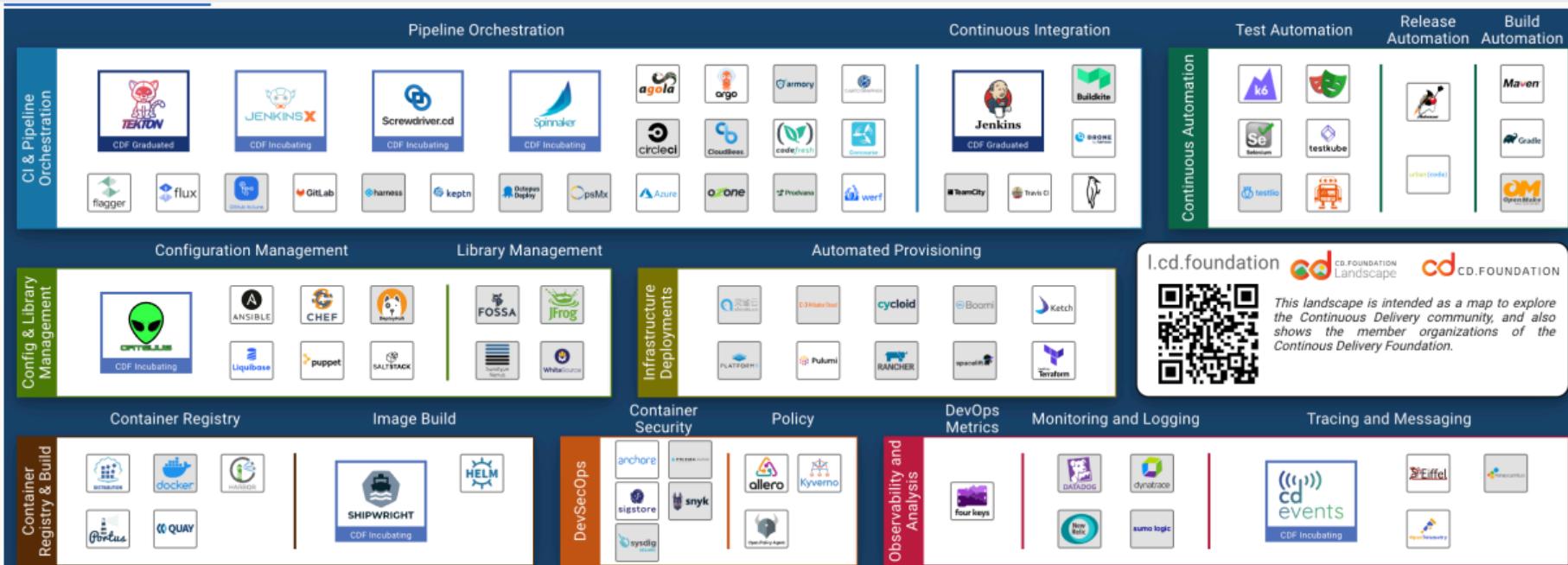
Improved DevEx

Still some challenges:

- Lock-in effect
- Missing/Broken Data
- Many Dashboards



A Plethora of Tools

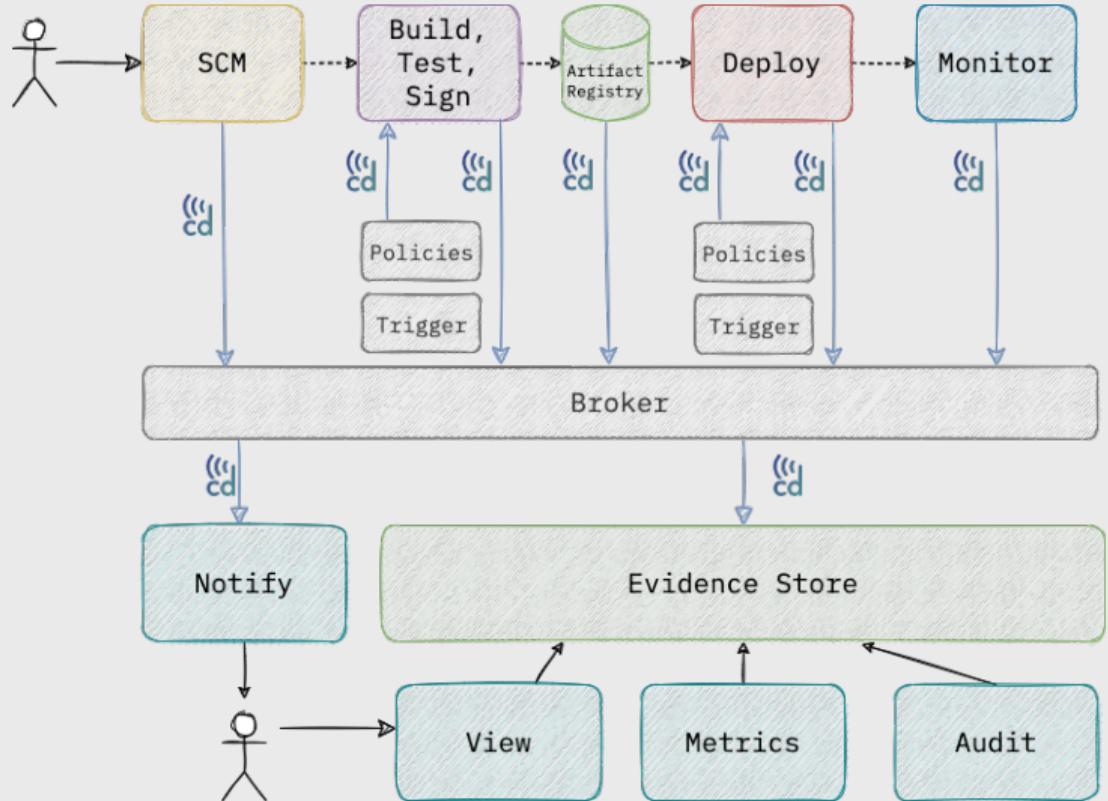




A common specification for Continuous Delivery Events

Interoperability

- › Less "Glue Code"
- › Better quality data
- › Drive Best Practices
- › Future Proofing



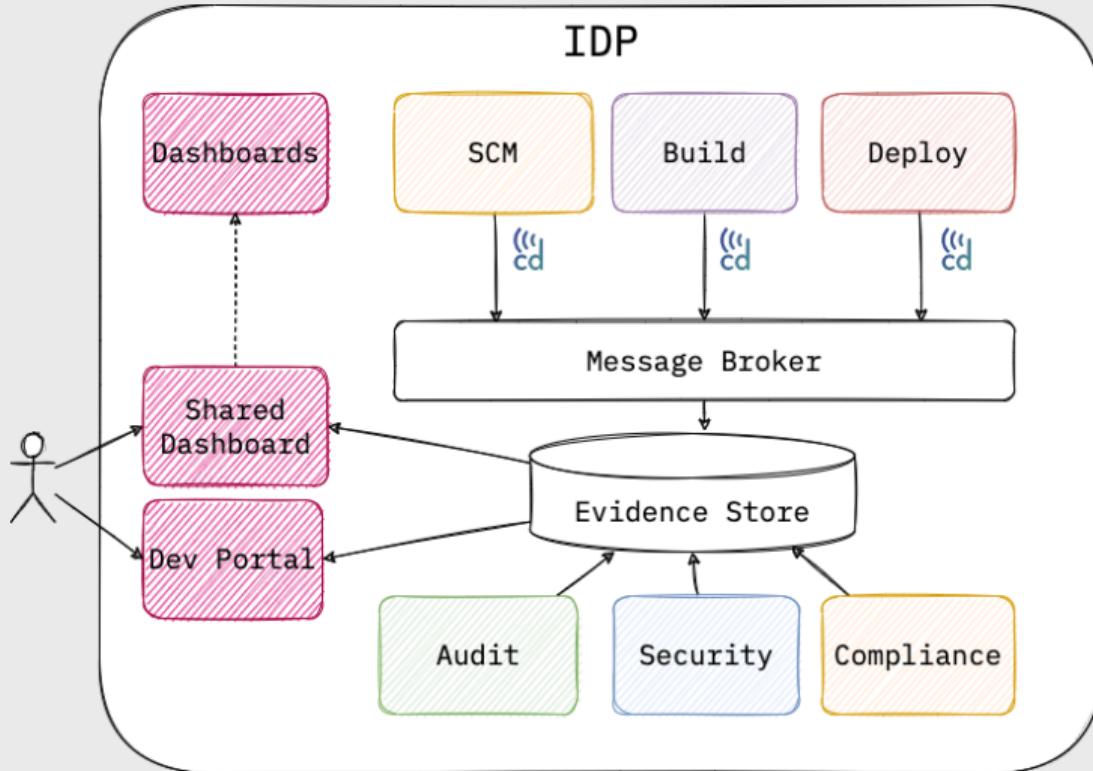
Evidence Store Supply Chain Security

- Where is a specific artifact deployed?
Tracking vulnerabilities
- How was this artifact built?
Audit and compliance
- How long did it take?
DevOps Metrics
- What's happening right now?
One overview dashboard for all needs



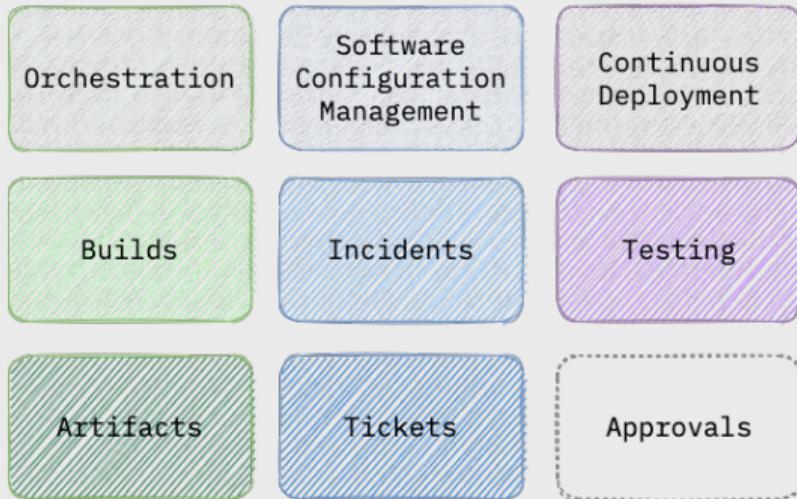
IDP and CDEvents

- › Add/swap tools
- › Consistent Data
- › Single Dashboard
- › Promotes Collaboration through Open Source
- › CDEvents and [CNOE.io](#)



Components

Specification:



Bindings:



SDKs:



Community

- › End Users
- › DevOps Vendors
- › Tool Maintainers



What's New



Photo by [Josh Sorenson](#), CCO



(((())) cdevents 0.4

Linked Events:

- › Connect Events
- › Fast Filtering
- › Visualization
- › Audit Trail

Ticket Events:

- › Inception to Deployment
- › E2E Metrics
- › Ticket Based Automation
- › Interop.

Custom Events:

- › Schema
- › Custom Types

Artifact Events:

- › SBOM, User
- › New Predicates

Release Announcement:



Adopting CDEvents



Implementation Working Group

Components

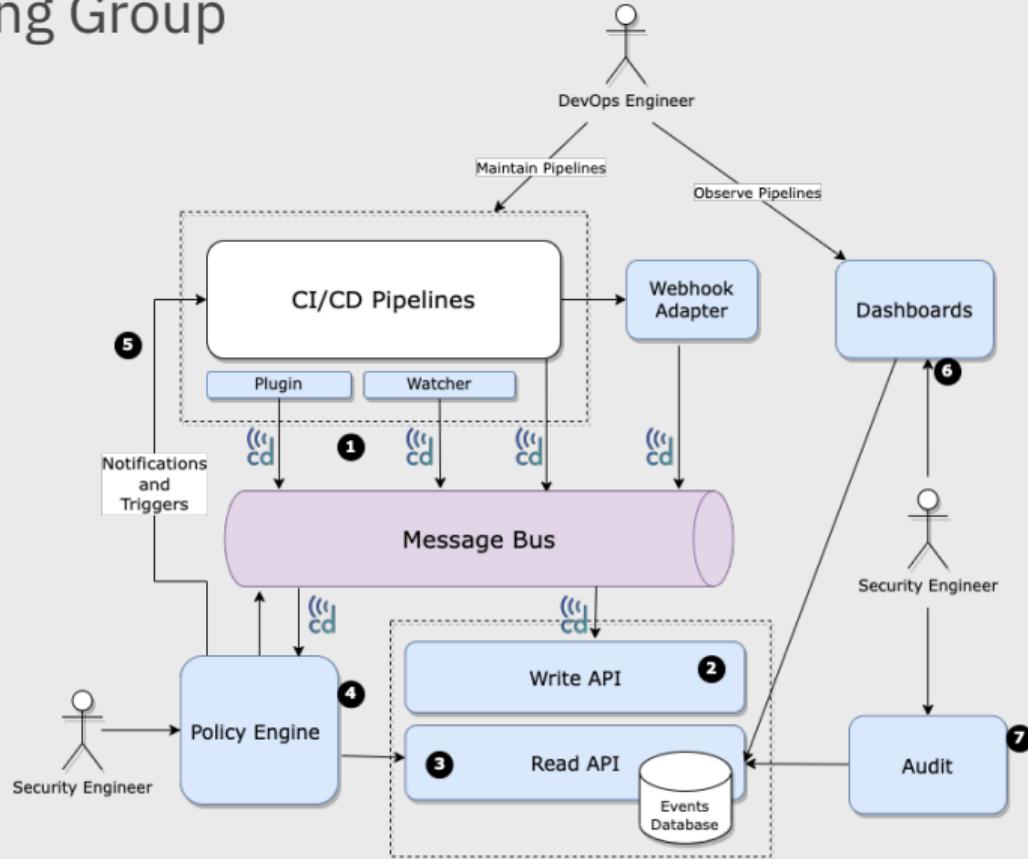
- › Event Sources
- › Message Bus
- › Event Store
- › Policy Engine

Use Cases

- › Security Automation

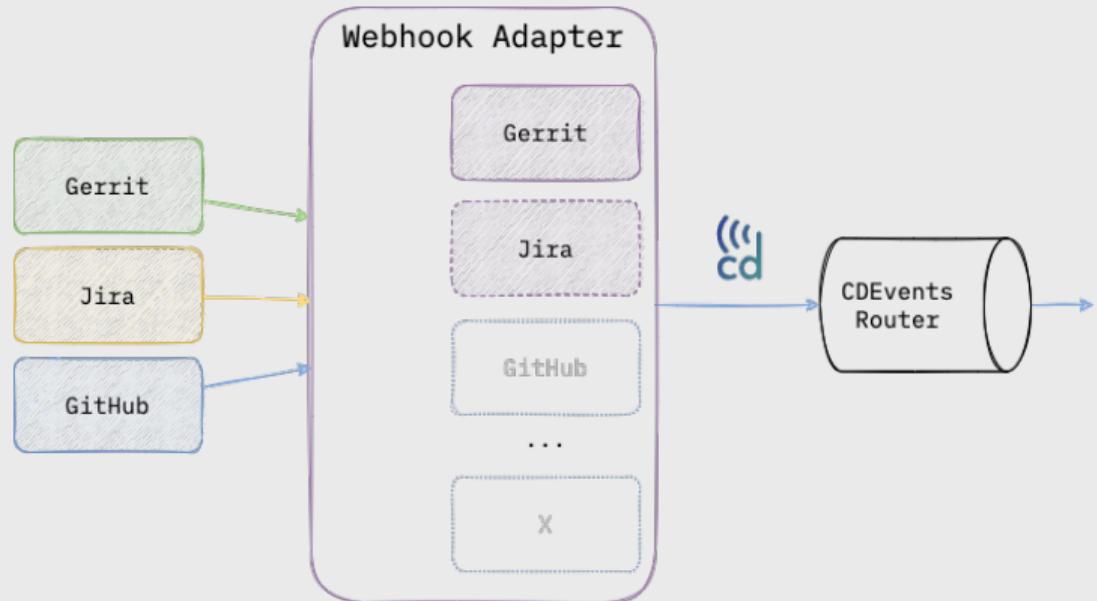
Tools

- › SDKs, Webhook Adapter



Webhook Adapter

- › Plugin mechanism
- › Translate into CDEvents
- › Deliver CDEvents to a sink



Step by Step

- › Start collecting data from tools
- › Define one initial use-case
 - Gain visibility into one aspect of the Software Factory
 - Implement a DORA metric
 - Gather audit trail data for artifacts
- › Collect CDEvents wherever possible
 - Native Support
 - Translate through Webhook Adapter
- › Analyse your data and iterate
- › Add new use cases
 - Triggering workflows
 - Visualisation
- › Join the discussion at the Implementation WG



Photo by Juli Kosolapova, CC0

CDEvents & TechStrong.tv

- The CD Pipeline
 - TechStrong.tv and CDF
 - techstrong.tv/videos/cd-pipeline
- Next Episode
 - Spoiler Alert!
 - CDEvents Adoption
 - End-users



Roadmap



CDEvents Roadmap v0.5 and beyond

New features

- Approvals
- Compositions
- Releases

Software & Architecture

- SDKs
- Webhook Adapter
- Links Service

Proof of Concept

- CDEvents Visualization

Implementation Working Group

- Continue to Drive Adoption
- Explore AI Use Cases



Conclusions

- › Lack of Standardization in the Continuous Delivery Space

which means

- › Complexity & Costly integrations
- › Risk of inconsistent and incomplete data
- › Developer fatigue

- › CDEvents is a common specification for Continuous Delivery Events

which brings

- › Standardization
- › Flexibility & Better DevEx
- › Better supply chain security stance through data



Thank You!



References

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- CDF: cd.foundation
- CDF Landscape: landscape.cd.foundation
- Release Announcement: cd.foundation/blog/2024/04/16/cdevents-v04/
- Webhook Adapter: github.com/cdevents/webhook-adapter
- Implementation WG: github.com/cdevents/implementation-wg



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