



# Adopting CDEvents and Embracing Interoperability



A stylized landscape illustration in the background, featuring rolling green hills, distant mountains, and a clear blue sky with wispy clouds. In the bottom right corner, there is a small, semi-transparent 'cd' logo.

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# Andrea Frittoli

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- › Lives in Wales, enjoys the wind
- › CDEvents maintainer and co-creator
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# Software Factory

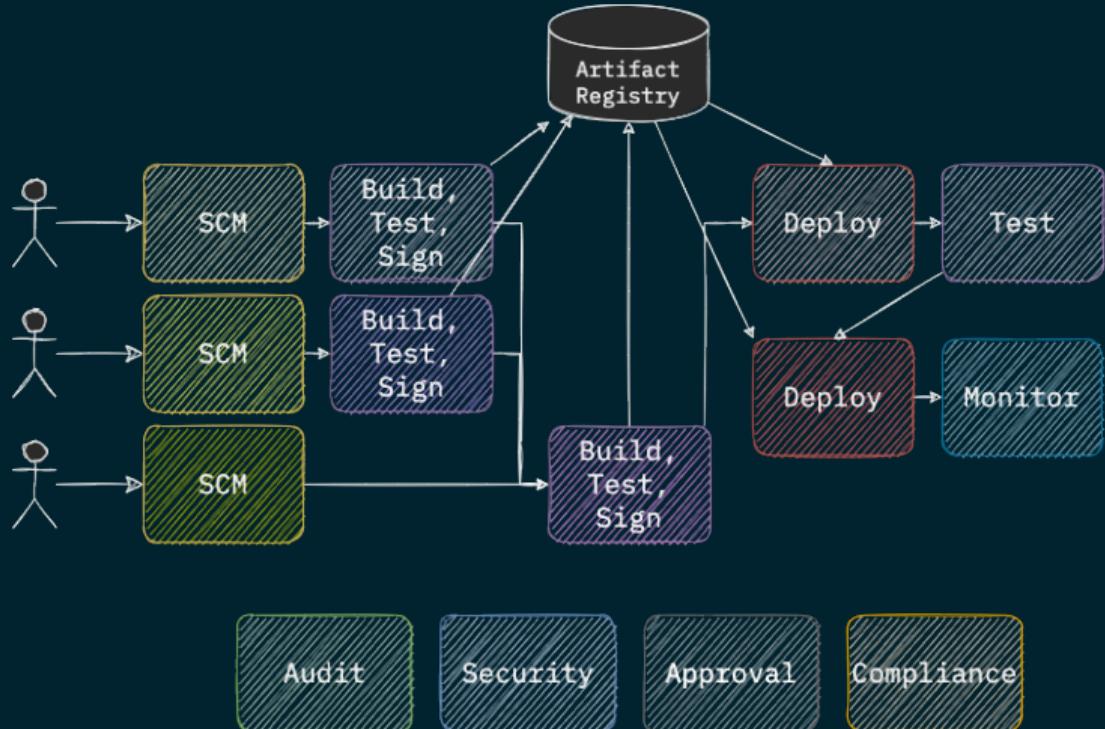


Photo by Jezael Mendoza, CC0

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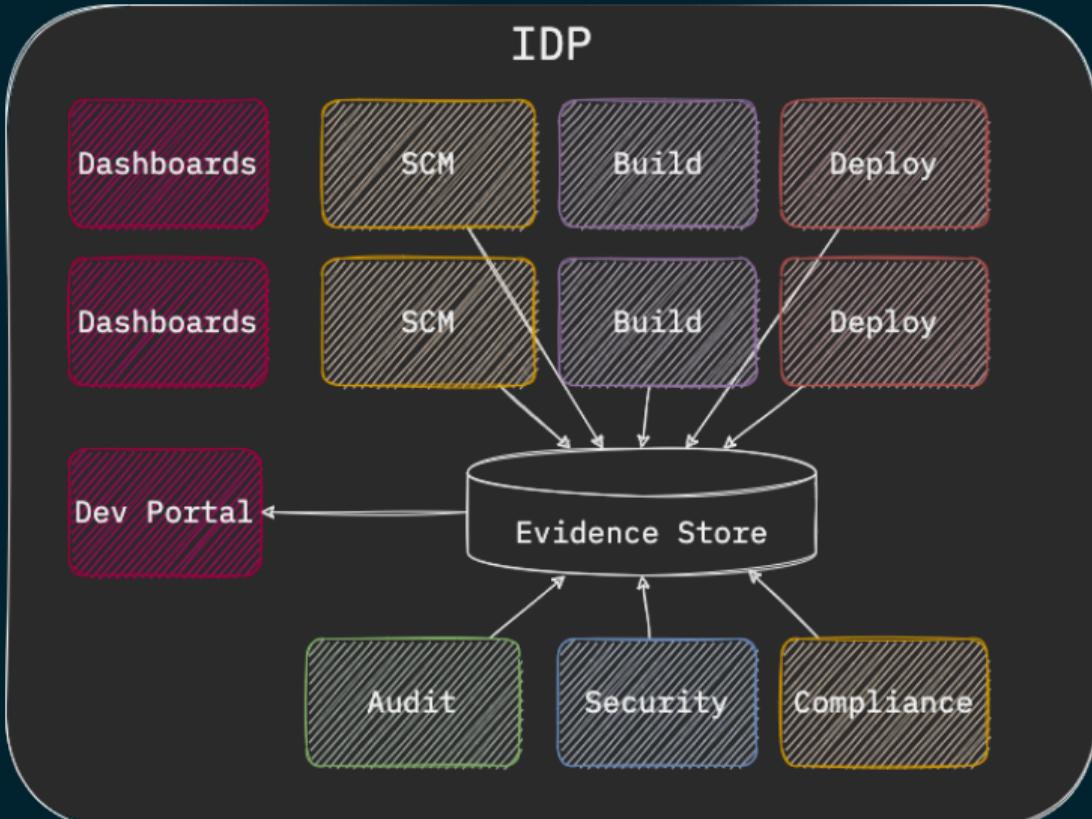
# Software Factory

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

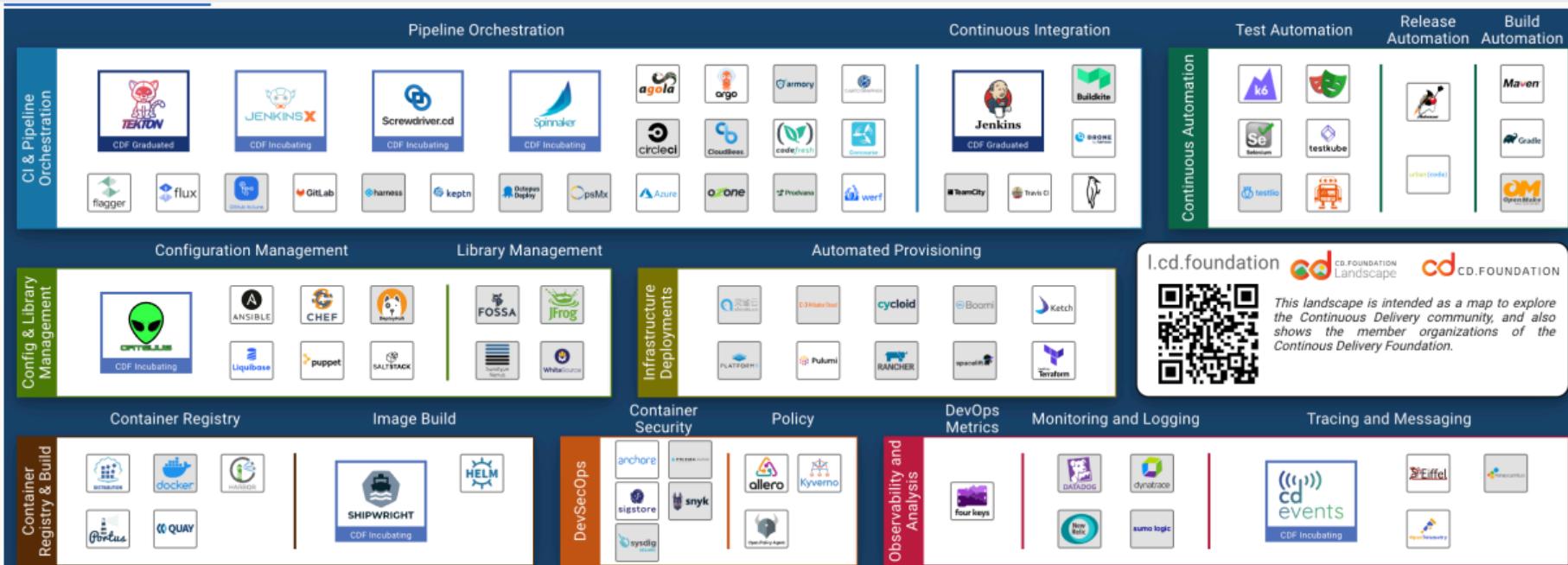


# Internal Development Platform

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



# A Plethora of Tools

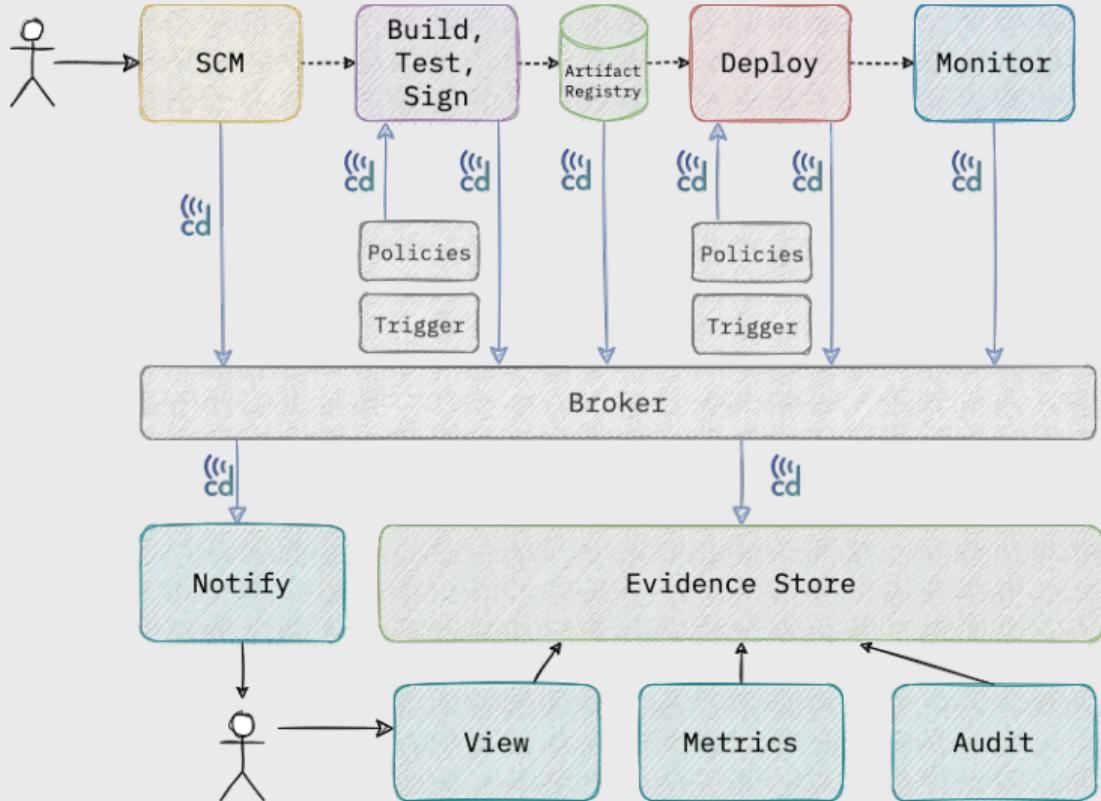




# A common specification for Continuous Delivery Events

# Interoperability

- › Less "Glue Code"
- › More focus on DevEx and DevOps metrics
- › Better quality data
- › Drive Best Practices



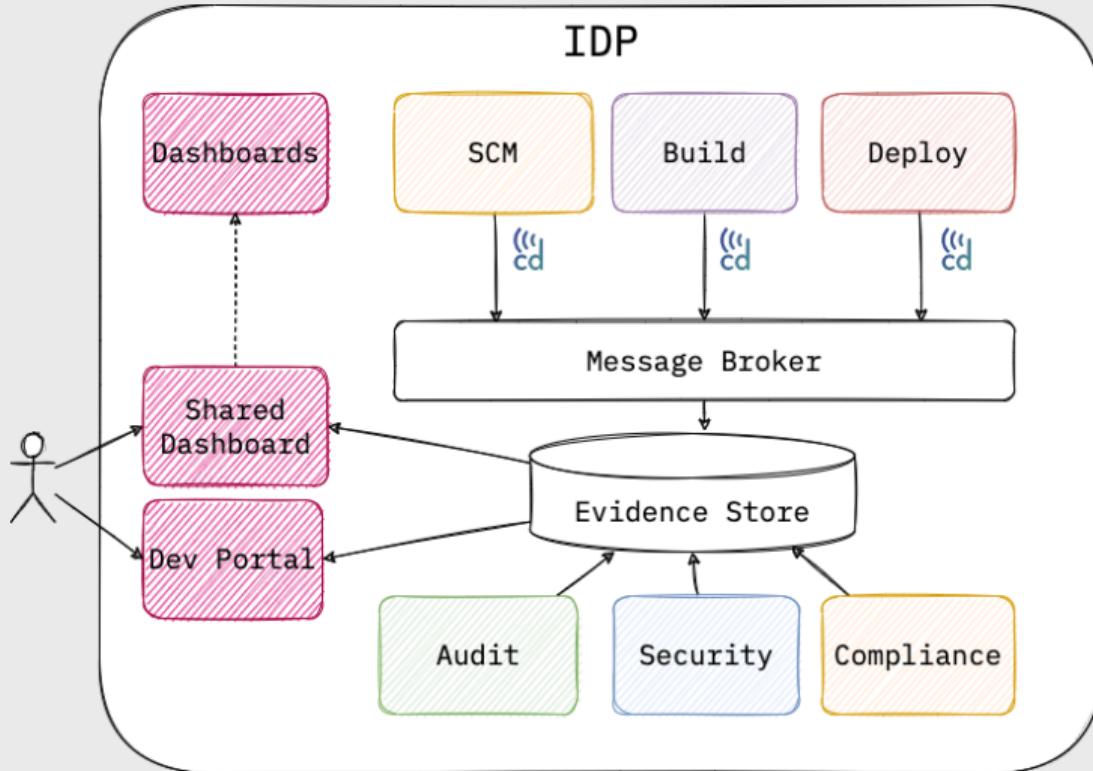
# Evidence Store Supply Chain Security

- 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



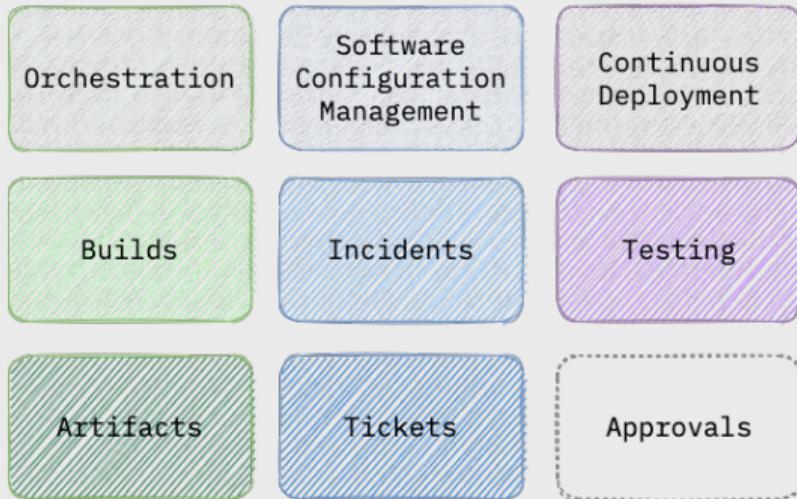
# IDP and CDEvents

- › 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

# (((( ))) 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:

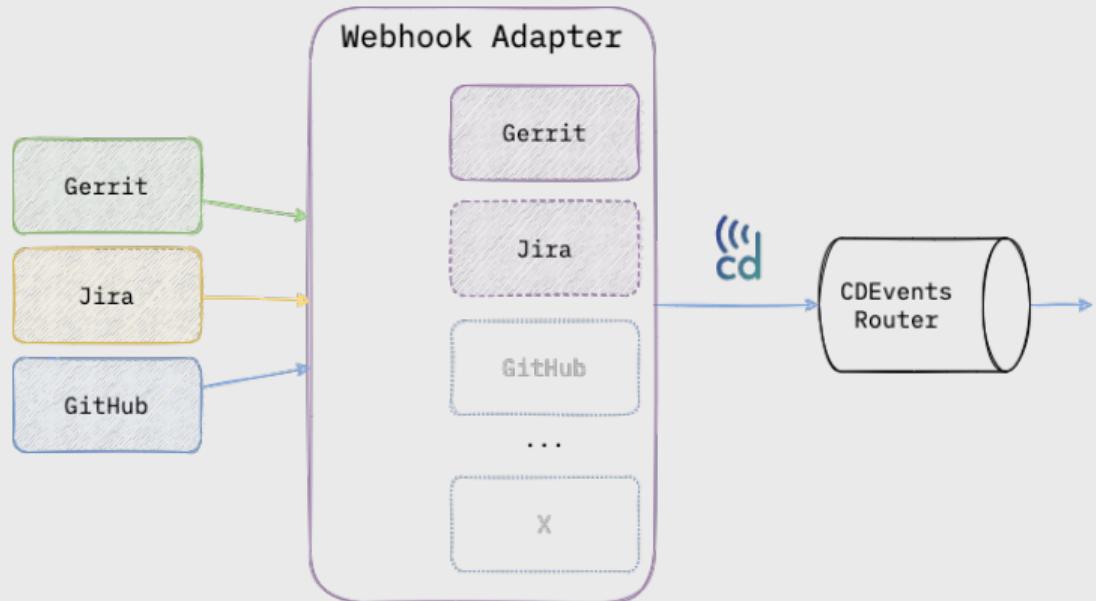
- › SBOM, User
- › New Predicates

## Release Announcement:



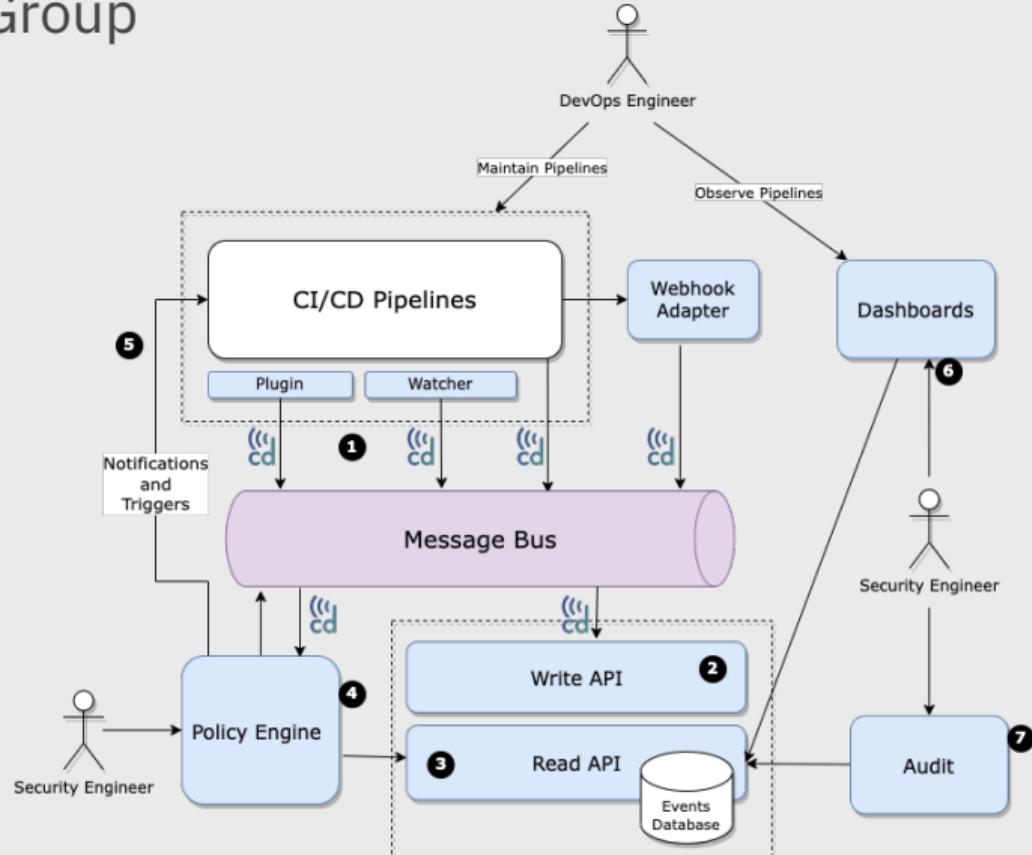
# Webhook Adapter

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



# Implementation Working Group

- › 1. Send Events
- › 2. Ingest in a DB
- › 3. Read Events
- › 4. Apply Policies
- › 5. Notifications and Triggers
- › 6. Visualize Workflows
- › 7. Audit Software Factory



# Roadmap



# CDEvents Roadmap

## v0.5 and beyond

### New features

- Approvals
- Compositions
- Releases

### Software & Architecture

- SDKs (JS, .NET)
- Webhook Adapter
- Visualization
- Links Service

### Proof of Concept

- CDEvents + CNOE.io
- CDEvents Visualization

### Continue to Drive Adoption



# 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 means**

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



# Thank You!



# References

- › cdevents.dev, [github.com/cdevents](https://github.com/cdevents)
- › CDF: [cd.foundation](https://cd.foundation)
- › CDF Landscapes: [landscape.cd.foundation](https://landscape.cd.foundation)
- › Release Announcement: [cd.foundation/blog/2024/04/16/cdevents-v04/](https://cd.foundation/blog/2024/04/16/cdevents-v04/)
- › Webhook Adapter: [github.com/cdevents/webhook-adapter](https://github.com/cdevents/webhook-adapter)
- › Implementation WG: [github.com/cdevents/implementation-wg](https://github.com/cdevents/implementation-wg)



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