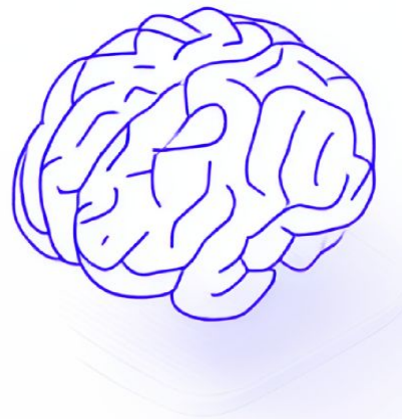


# Universal Data Transformation Fabric



How AI-Native Infrastructure works for OCSF Mapping

# Speakers



Yichen  
Fleaker



Paul Agbabian  
Splunker  
OCSF Architect



Gavriel  
Meir-Levi  
Fleaker

# Agenda

1. Introducing Fleak
2. Challenges in analyzing enterprise security data
3. What is OCSF?
4. Where Does Fleak Operate in Production?
5. Demo: AI Native OCSF Mapping
6. Case Study

# Fleak:

## The Universal Data Translator

- Pick a destination schema framework such as **OCSF**
- Deploy on the edge or in the cloud
- Process millions of events per second
- Self-adapt to input data drifts
- Complete governance and data sovereignty
- Real-time translation

OCSF

TIA

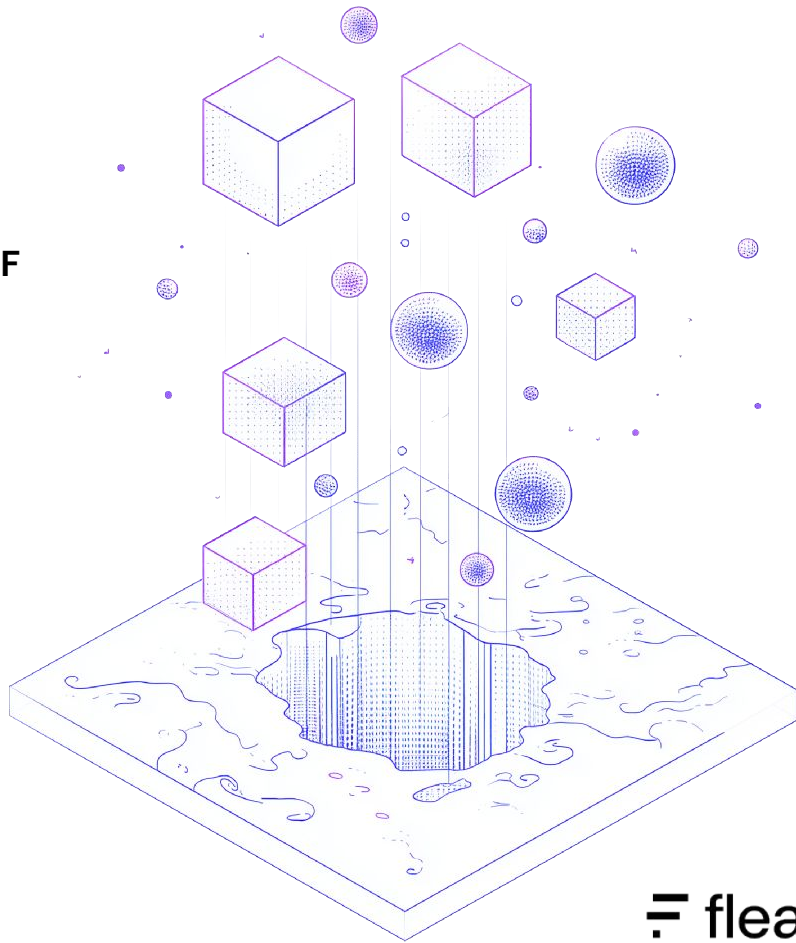
CSF

CEF

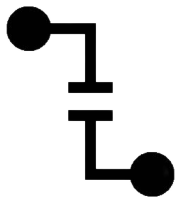
IEC

OT

CUSTOM

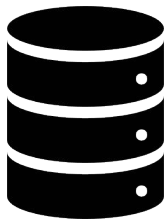


# Challenges in analyzing enterprise security data



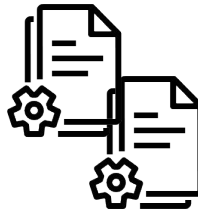
## Inconsistent and incomplete data

Logs and alerts in varying formats scattered across the organization in tough-to-find data silos



## Growing volumes of security tools and data

SOC teams often manage 45+ security tools — integration is complex



## Inefficient use of data across use cases

Security teams lose time mapping data instead of detecting threats



## Multiple proprietary log schemas

Duplicate ETL pipelines for each tool.

# Open Cybersecurity Schema Framework (OCSF)

An open standard that can be adopted by anyone to simplify security data normalization



Open-source project to deliver a simplified and vendor-agnostic taxonomy for security data that can be adopted in any environment, application, or solution provider

Speed up data ingestion and analysis without the time-consuming, upfront normalization tasks

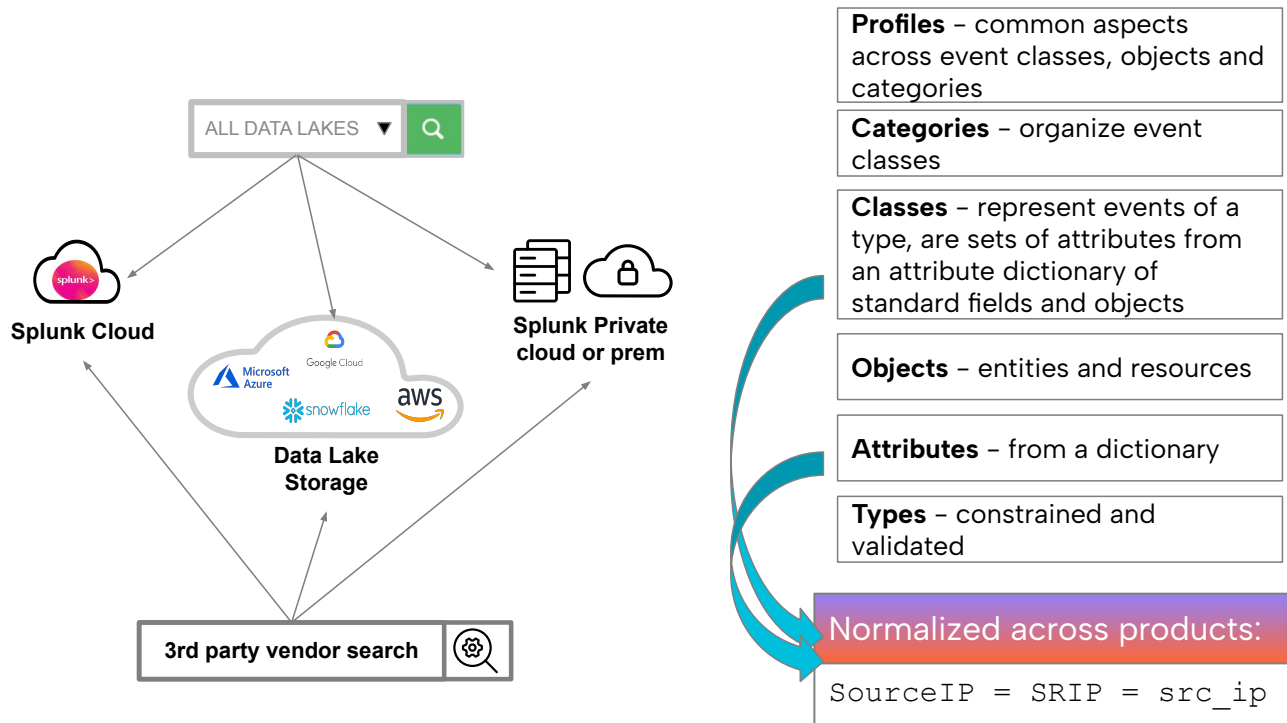
Combine data from OCSF-compliant sources to break down data silos that slow security teams

Officially joined the Linux Foundation in 2024

Industry-driven, community-based approach with over 1,100 participants across 200+ organizations

# Fundamentals of the framework

Separation of schema from data model implementation for data lake compatibility



The schema is **open and extensible** by customers and vendors, allowing for **cross product normalization**

It is **agnostic** to implementation and storage format (e.g. JSON, Parquet)

It has a **common dictionary of attributes and objects**

Every **event class** has a **disposition** or outcome

The **type\_uid** combines the event\_class\_uid and the activity\_id and **gives the event 'meaning'**

# How OCSF Works

OCSF simplifies security data integration through a standardized schema:



**Key benefits include:**

- One-time mapping for producers
- No custom parsers needed for consumers
- Hybrid cloud & multi-vendor ready
- AI/ML-ready data format



# What This Means For The US Military

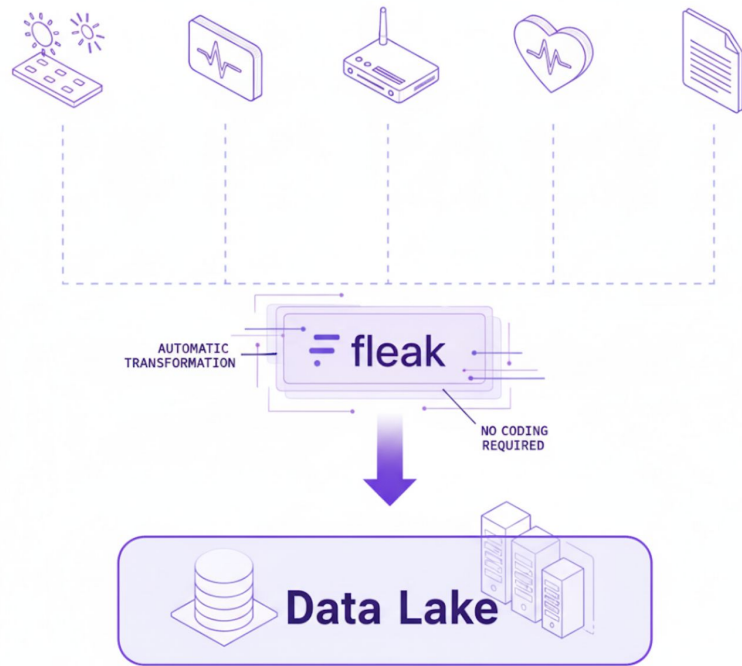
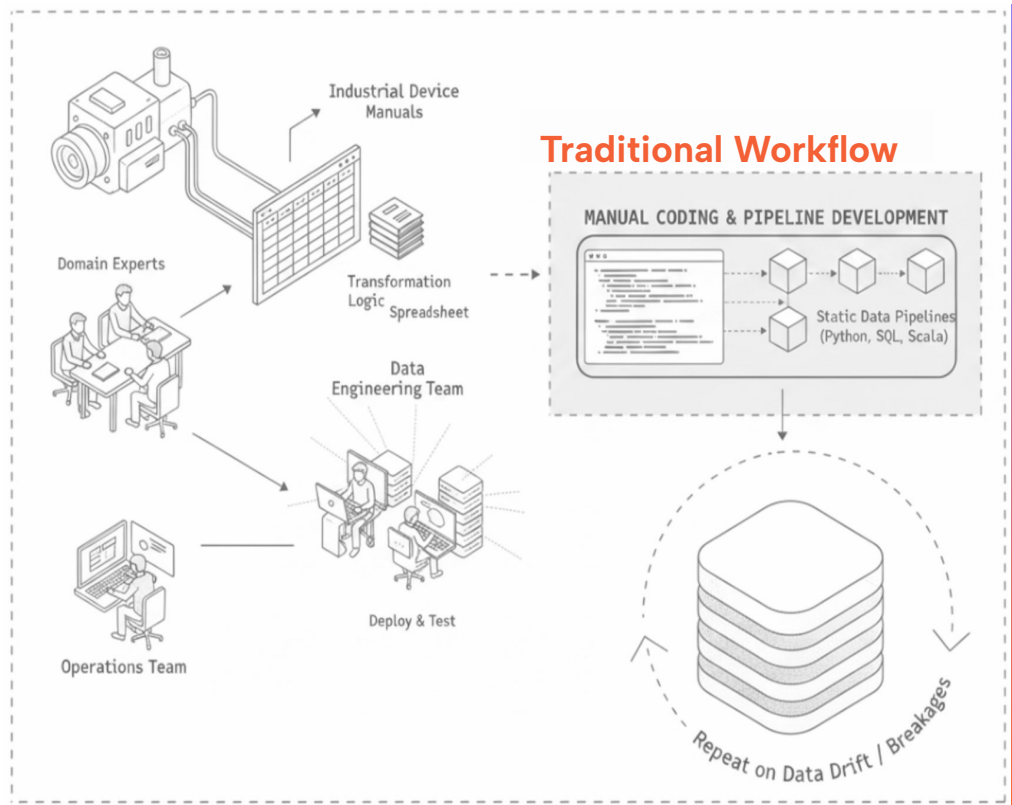
## *The Intelligence Cycle: From Data to Decision*



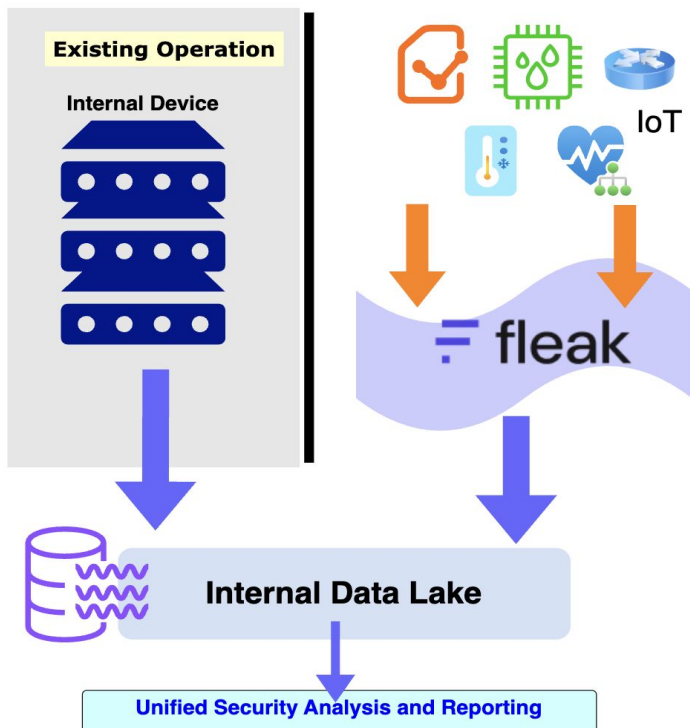
### The Intelligence Cycle Must:

- *Enable AI at scale*
- *Produce results in real-time*
- *Accommodate thousands of data sources and formats from legacy past to cutting-edge future*
- *Adapt and self-heal*

# Traditional Data Flows VS AI Native Data Fabric



# Case Study: Driving Efficiency and Scale for a F500 Enterprise



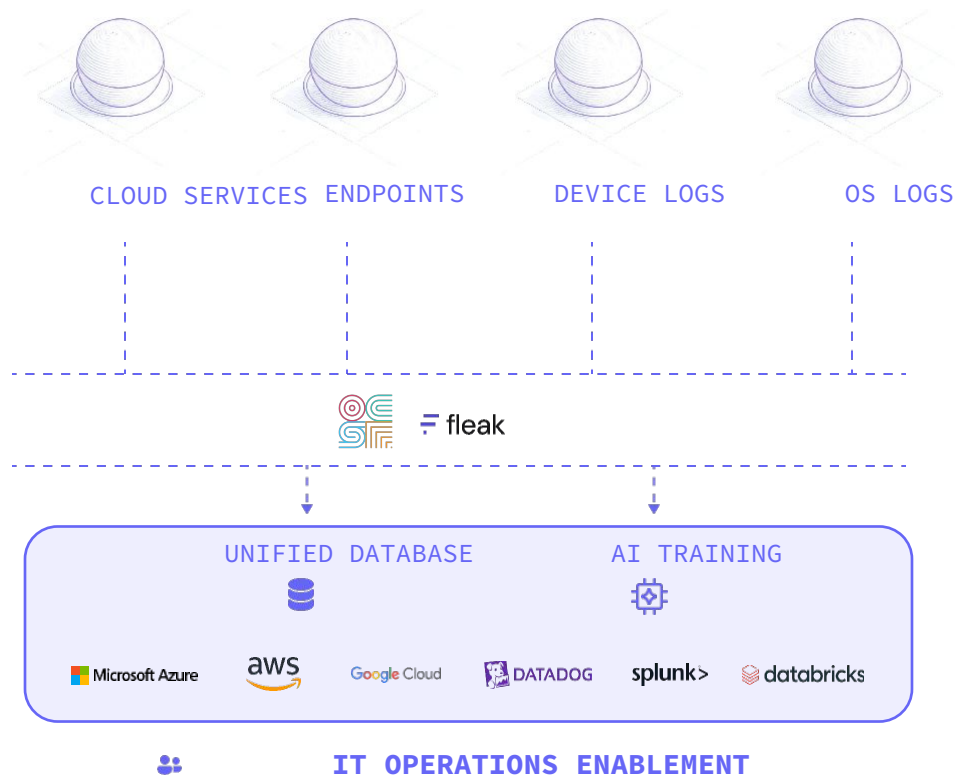
 6 months/source – 1 week

 90% cost reduction

 10x more integration of  
disparate data sources

# Where Does Fleak Operate in Production

- Between legacy infrastructure (Data Producer) and modern AI workloads (Data Consumer)
- Self-evolving data fabric (**in-motion**) that learns and adapts to changing business requirements
- Zero storage at millions EPS performance



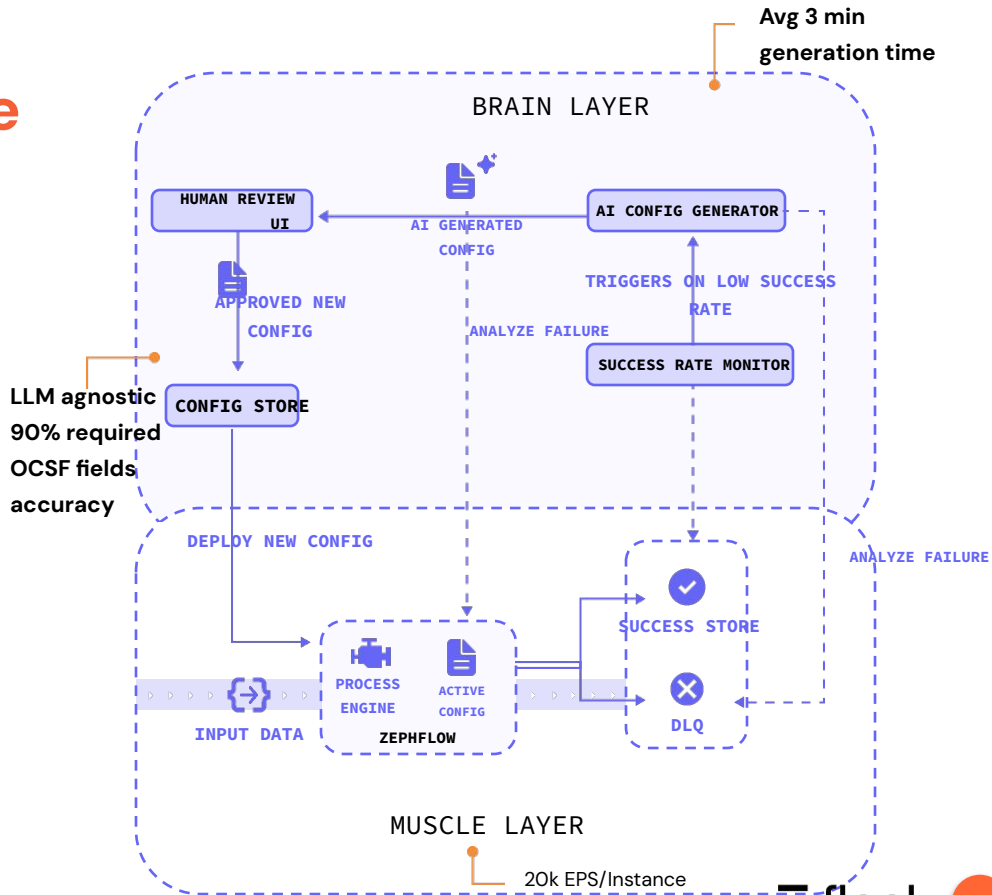
# The Self-Healing Architecture

## Self-Improving AI for Unmatched Precision →

Every data point makes our AI smarter

**Beyond Mapping Intelligence** → Our brain layer can easily expand to full automation: Enrichment, Routing, and MORE...

**Air Gapped Deployment** → Data tagging and template generation at unprecedented speed within your own environment



# demo

## Proudly Partnering with



*DENSO*



# Thank You

Try AI Native OCSF Mapping at:

[ocsf.ai](https://ocsf.ai)

For Other Schema Translators, Contact us at:

[contact@fleck.ai](mailto:contact@fleck.ai)