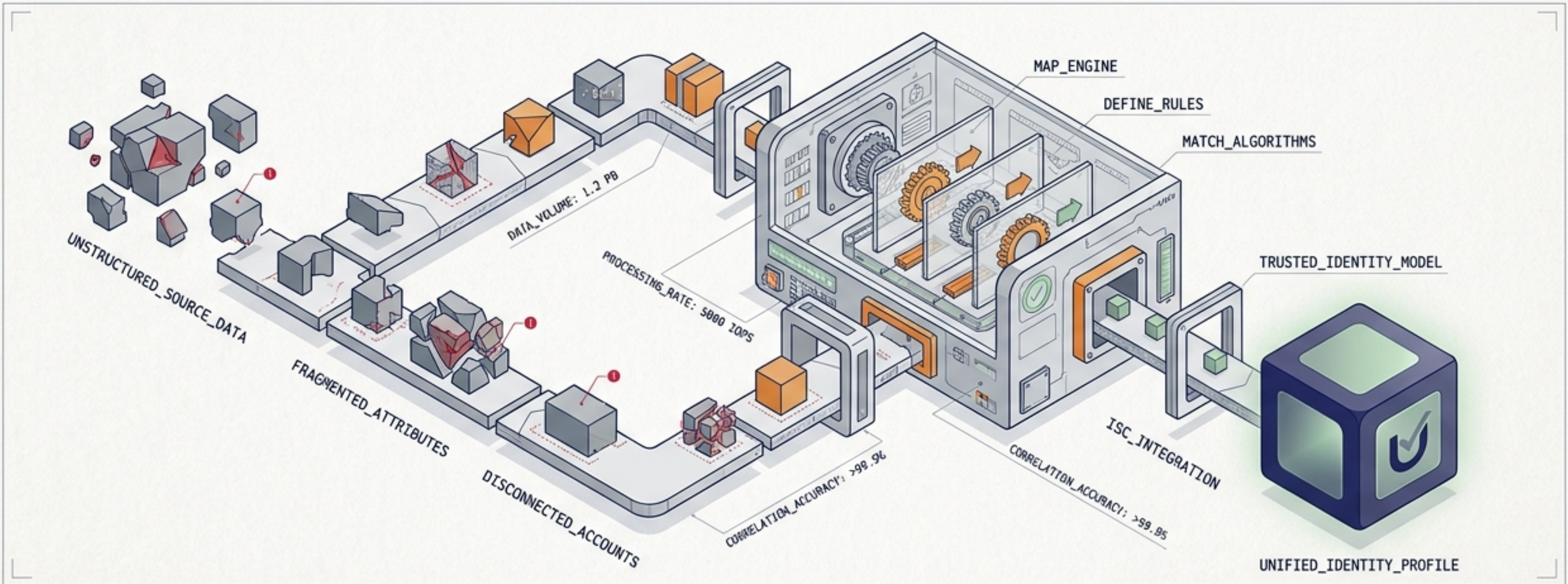


# Identity Fusion NG

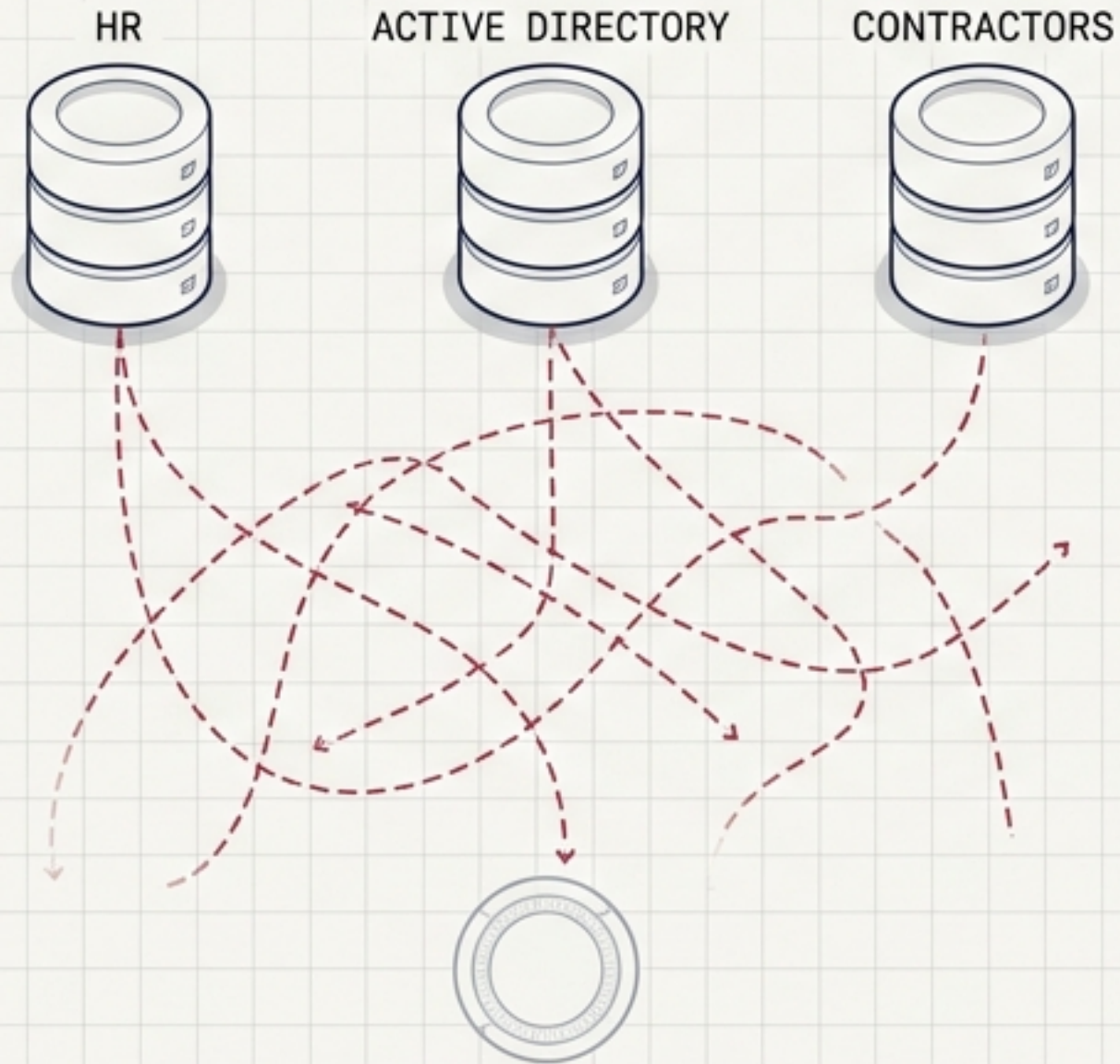
The Ultimate Map-Define-Match Framework for SailPoint Identity Security Cloud (ISC)



# STRICT CORRELATION FAILS WHEN RAW DATA IS FRAGMENTED AND INCONSISTENT

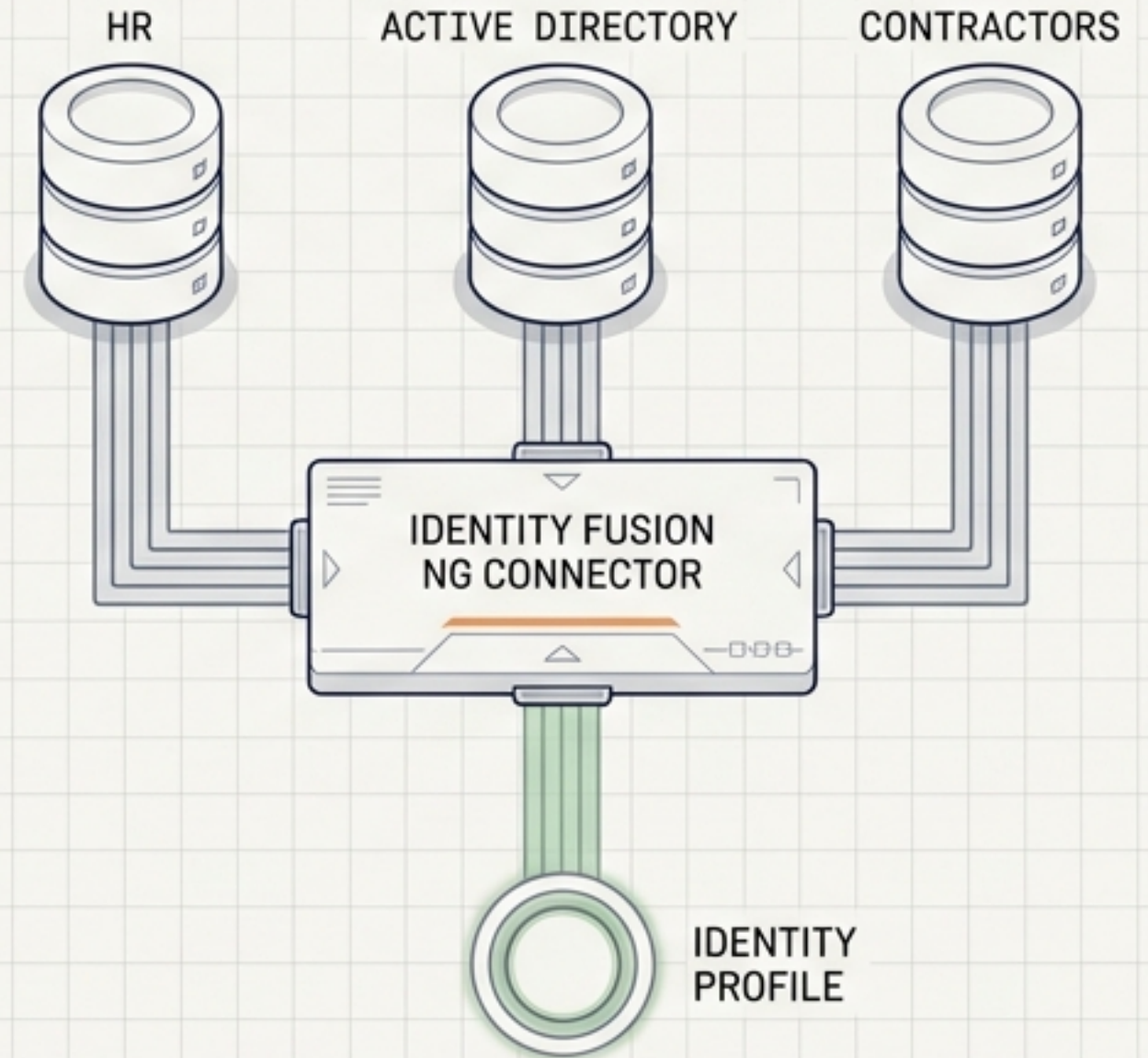
SIDE-BY-SIDE ARCHITECTURAL COMPARISON

## THE CHAOS



Strict correlation fails with inconsistent data across sources.

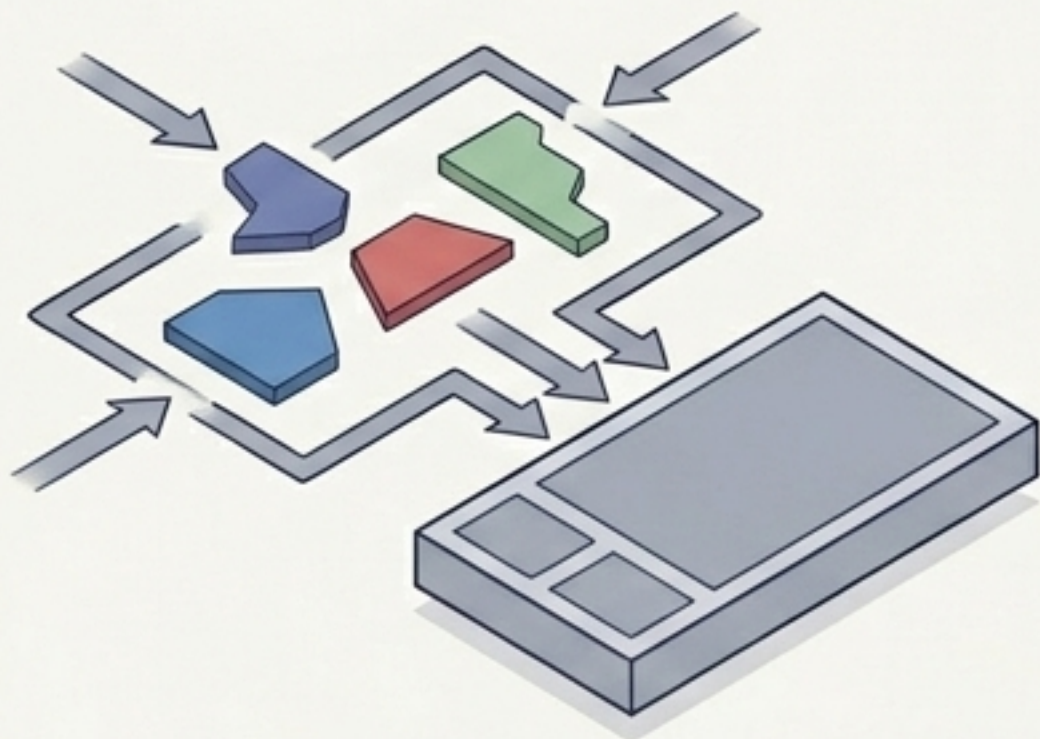
## THE FUSION FRAMEWORK



A streamlined framework that normalizes and aggregates before creating the baseline profile.

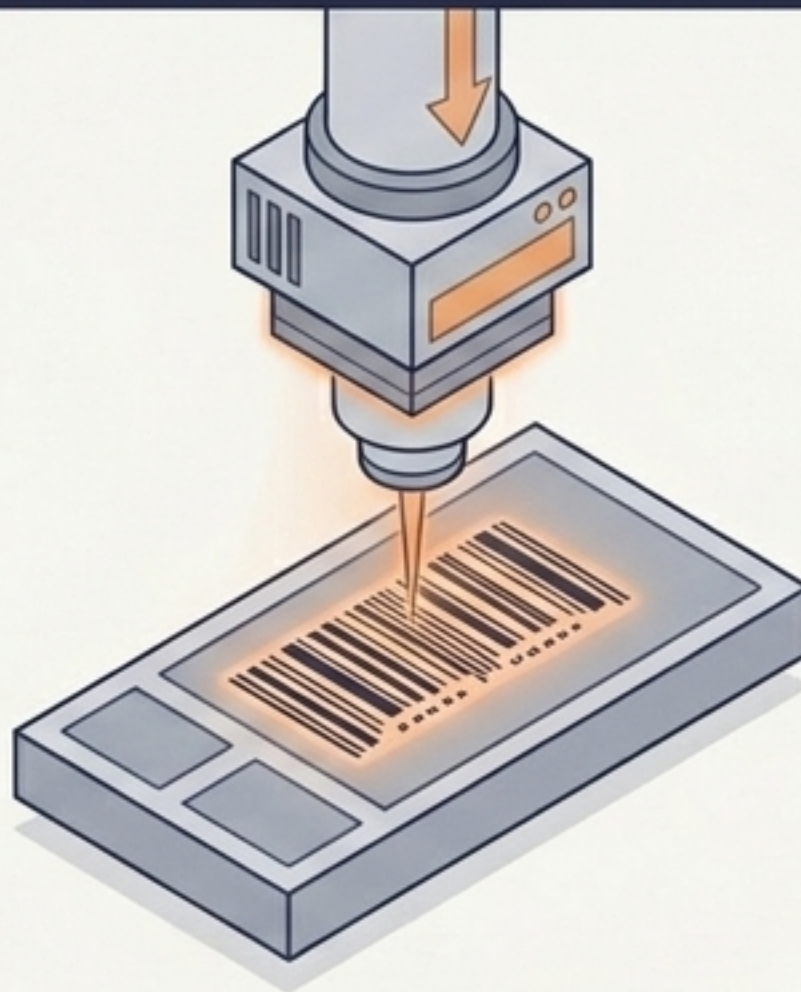
# THE FRAMEWORK ALWAYS FOLLOWS A LOGICAL SEQUENCE: MAP, DEFINE, MATCH

## STAGE 1: MAP (CONSOLIDATION)



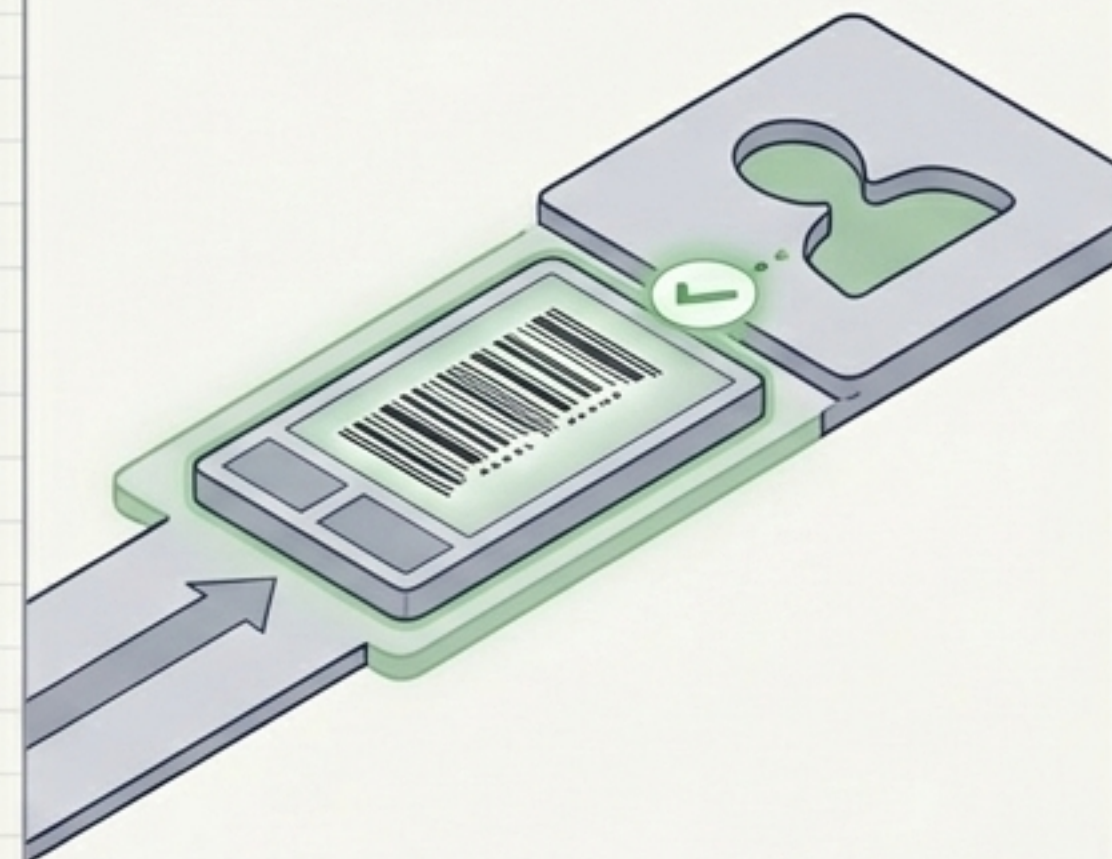
Align attributes from different sources and accounts into a unified schema.

## STAGE 2: DEFINE (COMPUTATION)



Generate new attributes like unique identifiers and normalized formats using Apache Velocity.

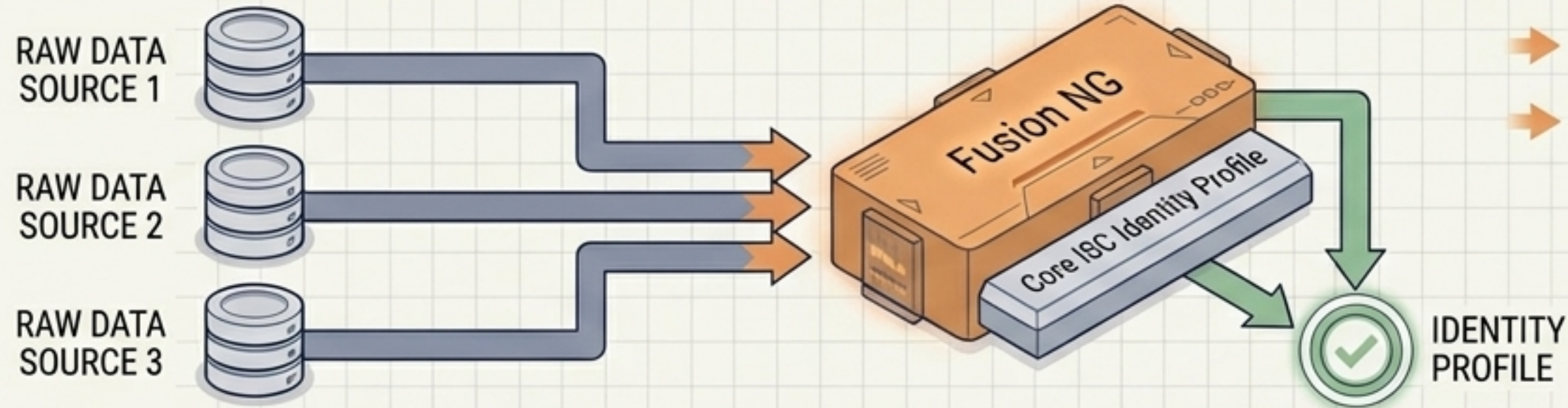
## STAGE 3: MATCH (CORRELATION)



Compare processed accounts against the identity baseline using advanced similarity algorithms to prevent duplicates.

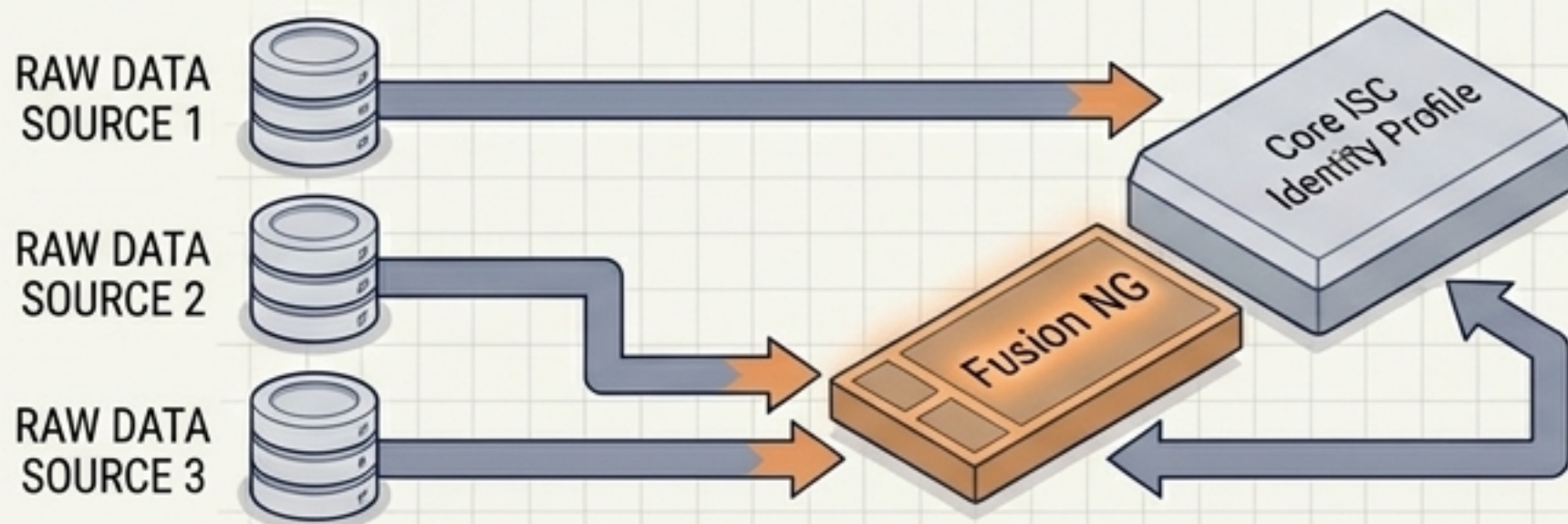
# DEPLOYMENT ARCHITECTURE ADAPTS TO AUTHORITATIVE AND NON-AUTHORITATIVE NEEDS

## MODE A: AUTHORITATIVE (FULL MATCH)



- ➔ Used when matching is required.
- ➔ Fusion acts as an umbrella over managed sources to determine which accounts create new identities versus correlating.

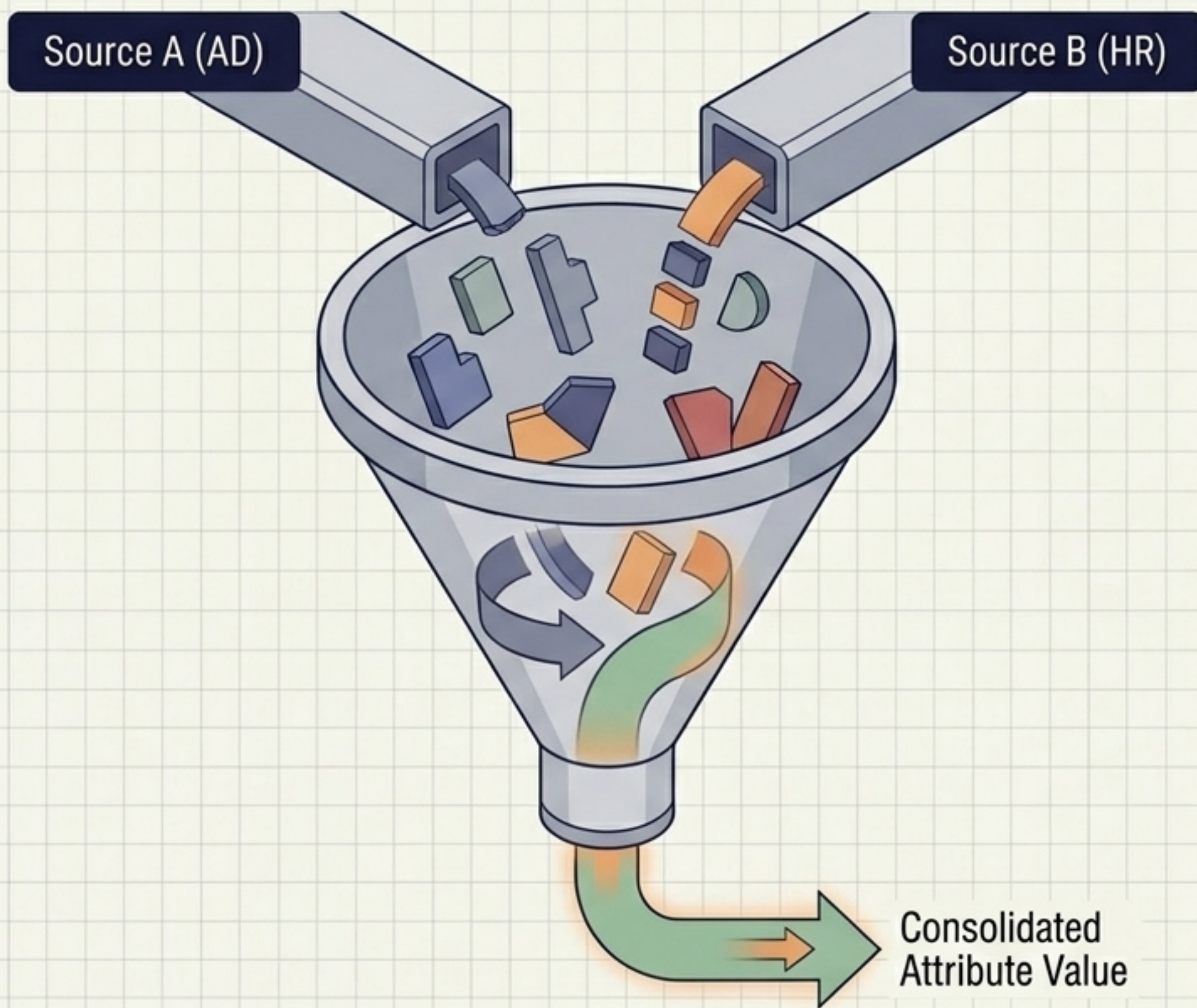
## MODE B: NON-AUTHORITATIVE (MAP/DEFINE ONLY)



- ➔ Used solely to compute unique IDs, calculate attributes, or consolidate data.
- ➔ Does not require identity matching.

**Technical Note:** Managed machine accounts (`isMachine=true`) are automatically skipped during ingestion.

# Pillar 1: Merging conflicting attributes with deterministic mapping strategies



## MERGE STRATEGIES



**Strategy 1:** First found. Selects the first value based on configured source order.



**Strategy 2:** Keep a list of values. Outputs distinct values as a multi-valued array.

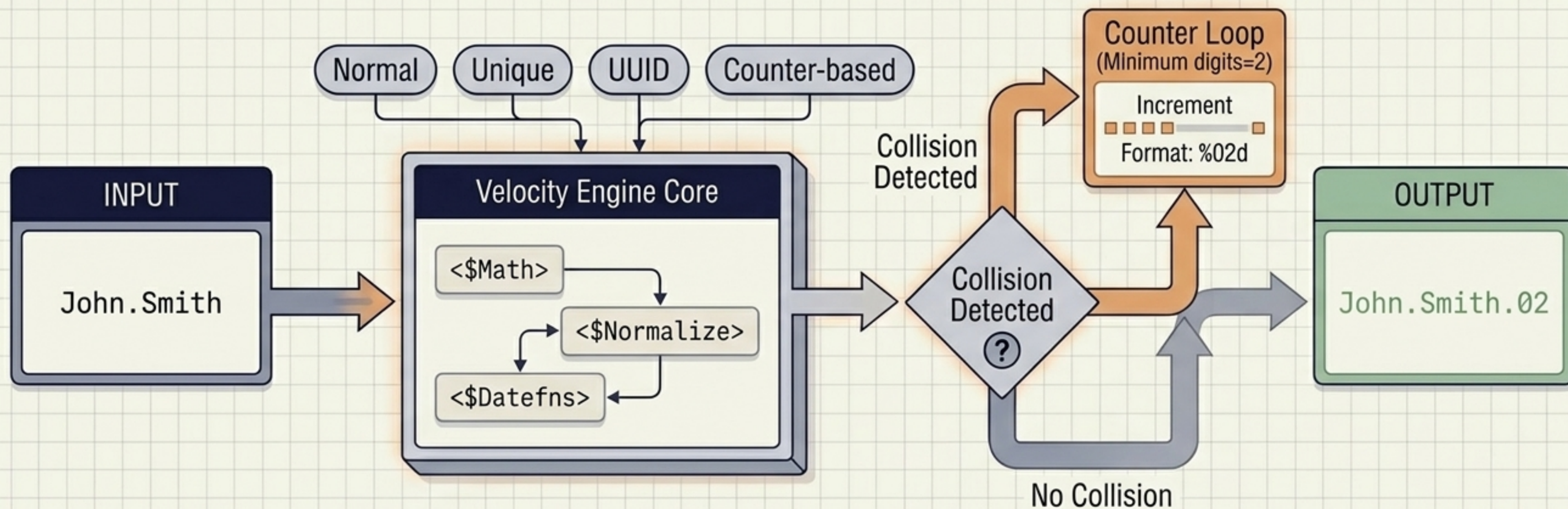


**Strategy 3:** Concatenate different values. Combines distinct values into a string; automatically alphabetizes and removes duplicates.




**Strategy 4:** Source preference. Forces a specific source to win when multiple sources contribute.

## Pillar 2: Computing unique identifiers and transforming data via Apache Velocity



**Pro-Tip:** Normal attributes automatically refresh on aggregation. Disabling and re-enabling a Fusion account forces a global refresh of all attributes, including Unique ones.

# Pillar 3: Granular correlation scoring with weighted similarity matching

 **Exact Match Auto-Assign:**  
Bypasses manual review ONLY if all configured rules score 100% and zero rules were skipped.

A rule's minimum similarity threshold doubles as its weight in the overall blend (stricter rules carry more influence).

Minimum Passing Threshold (70%)

Combined Match Score (0-100)

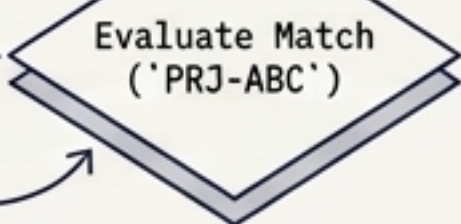


**87.9** ✓

## 1 Mandatory Match

Source Attribute: 'Project Code' (Mandatory)

PRJ-XYZ

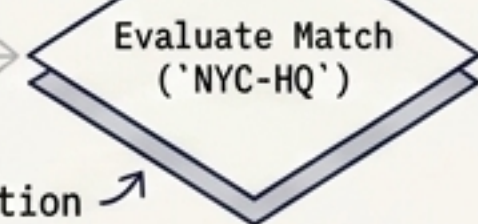


Bypasses combined score entirely; immediate rejection.

## 2 Skip match if missing


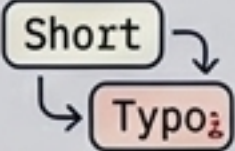

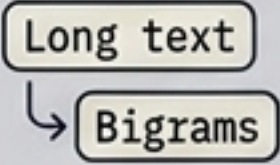

Source Attribute: 'Office Location' (Optional)

NULL



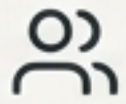
Empty field bypasses evaluation smoothly; score not penalized.

# Diagnostic Matrix: Selecting the correct matching algorithm

Algorithm	Best For	Key Strengths
Enhanced Name Matcher 	Person names	Handles name variations and initials natively.
Jaro-Winkler 	Short strings	Highly forgiving of typos; heavily weights the beginning of the string.
LIG3 	International names & multi-word fields	Levenshtein-based with intelligent gap penalties.
Dice 	Longer text	Bigram-based comparison for structural similarity.
Double Metaphone 	Verbal communication discrepancies	Matches based on similar phonetic pronunciation rather than spelling.

# Resolving ambiguity through bounded manual review workflows

Identity Review Request

 \_\_\_\_\_ Pending Review

Candidate List

Potential Match 1... 10

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## Configuration Parameters

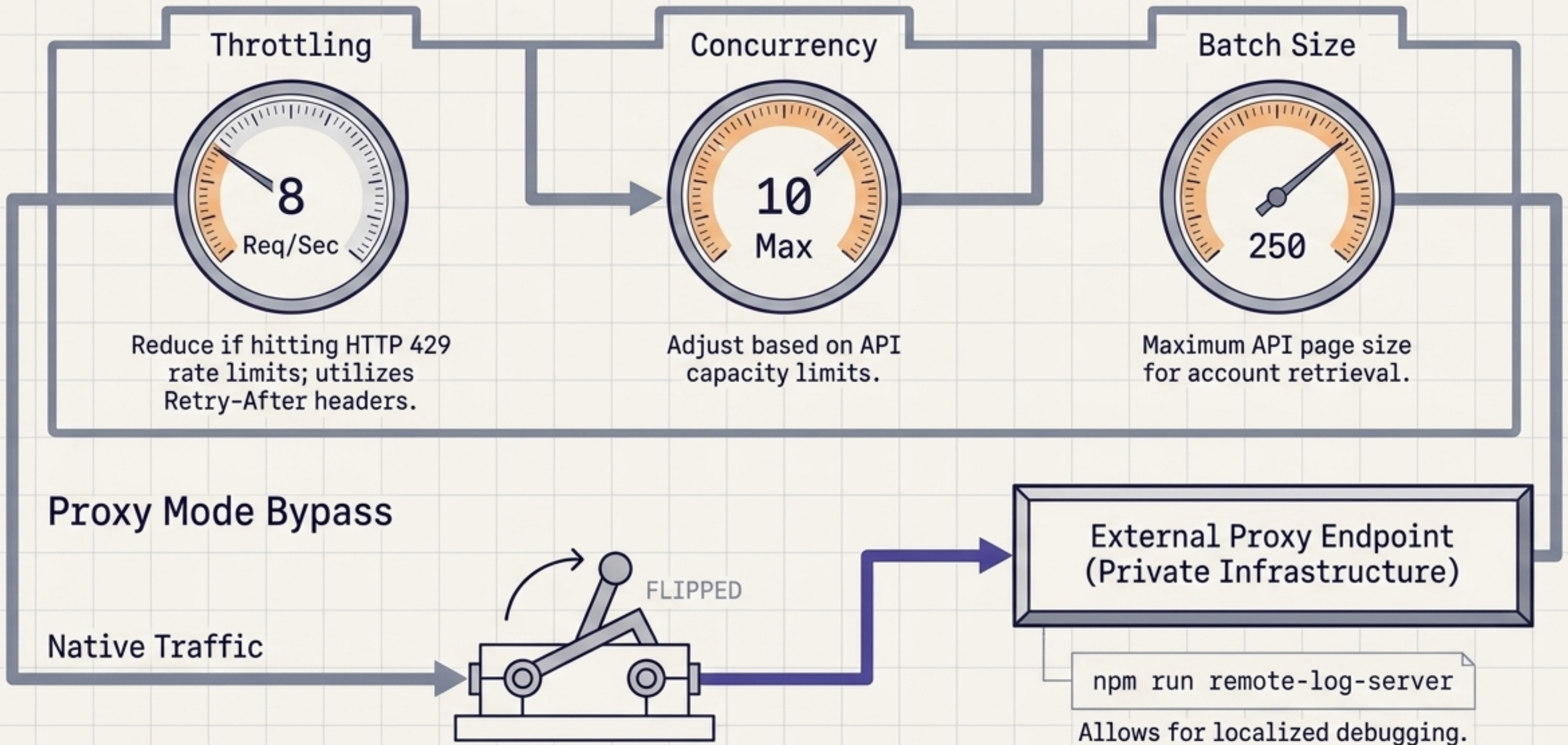
- **Maximum candidates:** Limit of 1-15 potential matches shown to the reviewer (Default: 10).
- **Expiration:** Days before the form expires (Default: 7).

## ! The Global Reviewer Trap

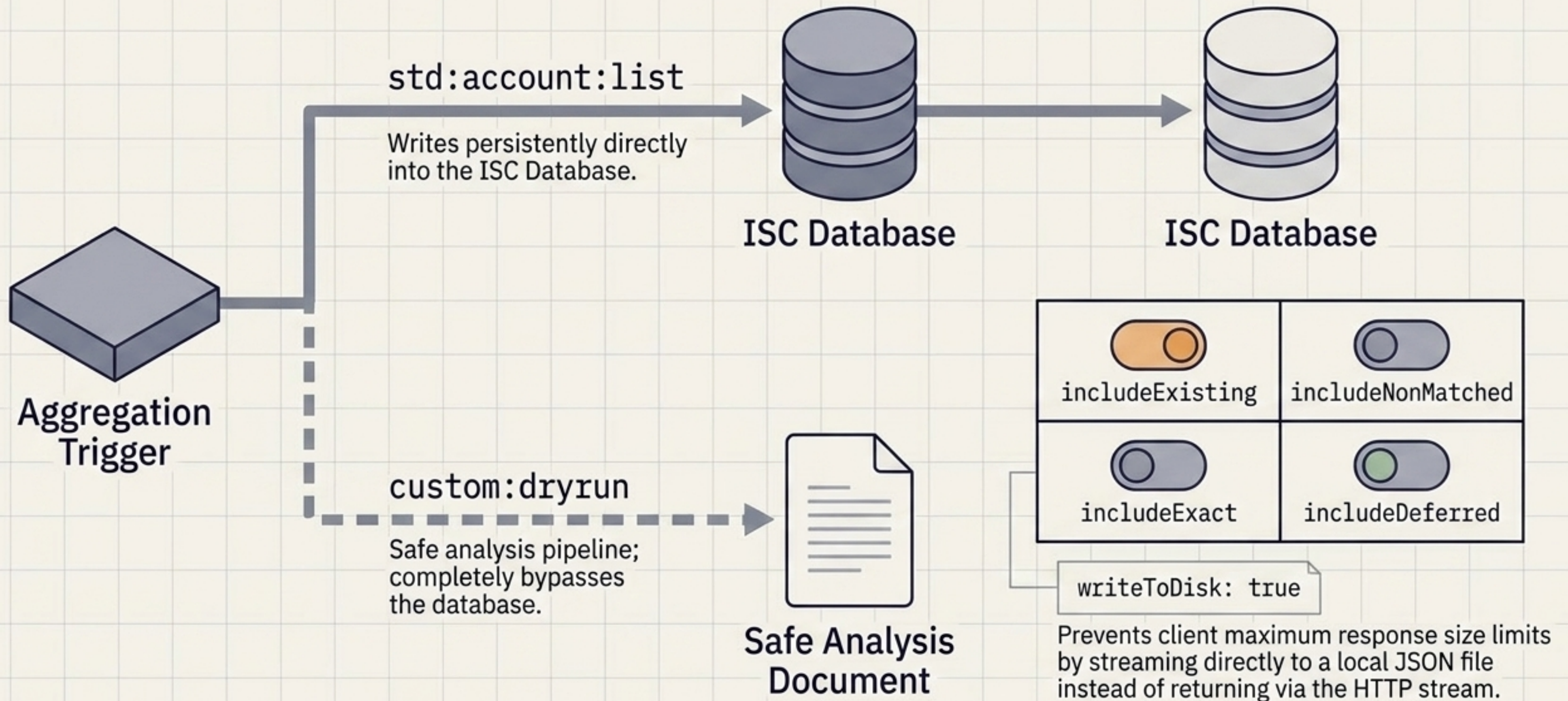
The "Owner is global reviewer" setting adds the source owner to all forms.

Do not enable this until after the initial validation migration pass, or massive review workflows will block block the initial ingestion.

# Advanced queue management guarantees resilience at scale



# Non-persistent analysis with the custom:dryrun command



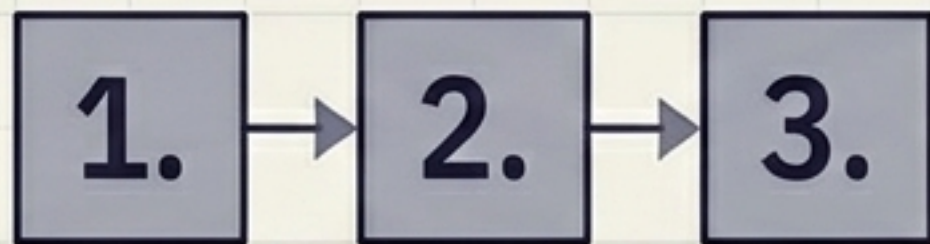
# Data Dictionary: The immutable account schema attributes

A precise reference matrix resembling premium API documentation for immutable account schema attributes.

● Single Value    ■ Multi-value Array    ★ Entitlement

Attribute	Type	Description
id	●	Unique native identity.
name	●	Account display name.
history	■	Dated lifecycle event log.
statuses	■ ★	Static tracking labels (e.g., baseline, orphan). <b>Note: Not requestable.</b>
actions	■ ★	Assigned triggers. <b>Note: Requestable to generate potential result reports.</b>
originSource	●	<b>Crucial for auditing.</b> Tracks original source of creation. <b>Set once, never modified.</b>
accounts / missing-accounts	■	Managed account keys (sourceId::nativeIdentity).

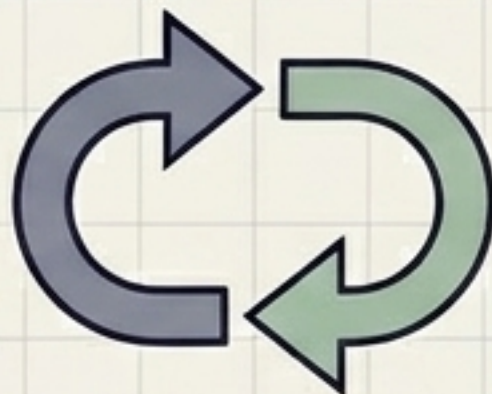
# Architectural constraints and best practices



## Order is Absolute.

Sources, attribute mapping, and definitions are evaluated strictly in configured sequence.

The chronological order of your setup defines the exact hierarchy of **data processing**.



## Manager Correlation.

Fusion accounts with multiple **managed sources** may have conflicting managers.

Persist **original manager value pairs** in the schema and use a correlation rule/transform to handle dynamic correlation.



## Reserve Account Names.

Do not use a unique attribute or username that might be reset later as the Fusion account name.

Reserve the account name for the most human-friendly, **immutable unique attribute** possible.

# Quick Start Deployment Roadmap

