About Identity Matching

Identity Matching refers to the task of determining if a person presented by a System of Record (SoR) is already known to the Identity Management System (IdMS). There are several characteristics of an Identity Matching implementation.

Identity Matching Models

Coordinated vs Independent Attributes

In a **coordinated** implementation, all Systems of Record agree to a single set of "golden" attributes, and the Identity Matching component is authoritative for these attributes. When an SoR presents attributes for matching, the Identity Matching component matches against the single, golden set of attributes.

In an **independent** implementation, each system of record is authoritative for all of its own attributes. When an SoR presents attributes for matching, the Identity Matching component may match against a canonical representation of these attributes as managed by the IdMS, but it may also match against each SoR's representation of these attributes.

Synchronous vs Asynchronous Match Resolution

When a partial/potential match occurs, the client may be able to resolve the match **synchronously** by presenting information to the data entry personnel and submitting a forced resolution request.

If the client is not able to do so, then the match is resolved **asynchronously**, usually by a notification going to a match administrator, who can then view the potential match and resolve it.

When matching is performed via batch operations, it must be asynchronous.

Implementation at Registry vs Standalone

Identity Matching can be performed at the **Person Registry** or as a **standalone** service.
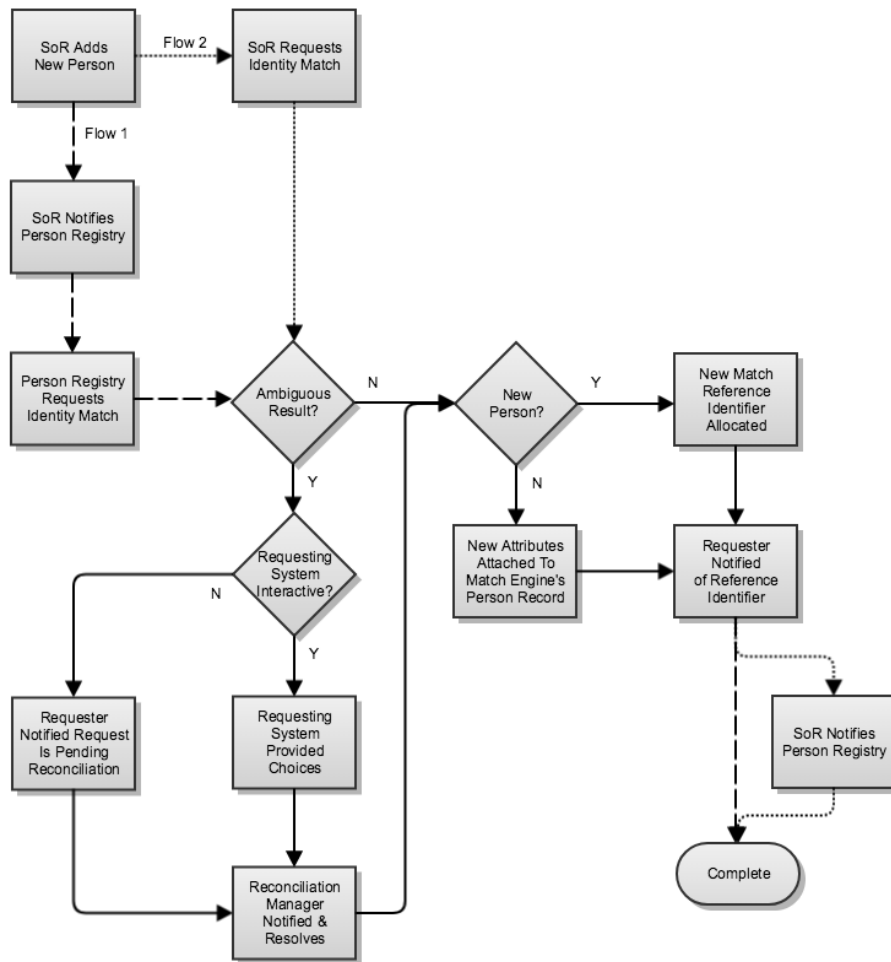
Match Before Registry vs Match At Registry

Identity Matching can be performed **before** a record is added to the Person Registry, or **at** the Person Registry. In either case, the Identity Matching might be performed by the Person Registry, or by a standalone service.

Identity Match Process Flow

SoR Adds New Person →(Flow 2)→ SoR Requests Identity Match

Flow 1 → SoR Notifies Person Registry → Person Registry Requests Identity Match

Ambiguous Result?
- N → New Person?
  - Y → New Match Reference Identifier Allocated → Requester Notified of Reference Identifier
  - N → New Attributes Attached To Match Engine's Person Record → Requester Notified of Reference Identifier
- Y → Requesting System Interactive?
  - N → Requester Notified Request Is Pending Reconciliation → Reconciliation Manager Notified & Resolves
  - Y → Requesting System Provided Choices → Reconciliation Manager Notified & Resolves

Requester Notified of Reference Identifier → SoR Notifies Person Registry → Complete

About COmanage Match

COmanage Match is a standalone Identity Matching solution based on the ID Match Strawman API. It can work with, but does not require the use of, COmanage Registry.