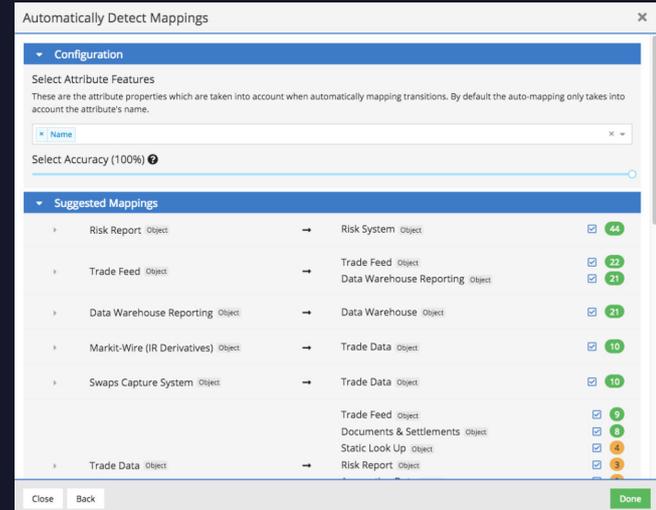# Solidatus

Auto-Mapping Lineage

The costly effort required to define attribute connectivity in data lineage diagrams is a critical bottleneck within organisational metadata management. This is due in part to the inconsistent naming conventions used across an organisations system landscape as well as the vast quantity of data elements.

The Solidatus AutoMapper is designed to reduce this effort by automatically detecting likely attribute mappings between defined systems and allowing users to rapidly confirm or reject the connectivity suggestions, significantly speeding up lineage discovery.

FEATURES

- Given a set of source and target systems, the Solidatus AutoMapper uses fuzzy matching, naming convention heuristics and its machine learning ability to find likely data flows.

- Solidatus rates the suggested mappings with a confidence score which can be stored on the created transitions. Users can configure the minimum confidence required to accept a mapping.

- Attribute connectivity can be detected based on name similarity, properties (e.g. data types, IDs, descriptions) or structure within a system.

- Users can accept or reject suggestions either at the system-level or attribute-level, based on the displayed connectivity score.

- The AutoMapper can use the existing mappings to search for extra transitions which may have been missed by manual mapping efforts.

BENEFITS

- Increase productivity of analyst and developer mapping efforts, significantly reducing the time and resources required to produce high-quality and accurate lineage diagrams.

- In order to demonstrate data lineage quickly, organisations can easily bootstrap data lineage documentation by AutoMapping hundreds of systems. Where mapping is automated, matching scores can be stored in the model to demonstrate confidence of mappings.

- The Solidatus AutoMapper provides productivity gains in both initial population and ongoing business as usual metadata management, by reducing the manual effort required for documenting new or extended systems.

- The AutoMapper can analyse data samples to detect new mappings based on data values to increase the confidence of suggested mappings.

USAGE

- AutoMapper has a simple to use interface which is available from the toolbar when editing a Solidatus model.

- In the AutoMapper, select one or more source systems and one or more target systems. Alternatively, select "Auto" and Solidatus will search the model for potential systems.

- Configure the accuracy and matching criteria to see how the suggested mappings change.

- Choose whether to accept or reject the suggested mappings at the object or attribute level. Solidatus will then create the new transitions in the model.

KEY POINTS

▶ Detect transitions from naming convention heuristics

▶ Reduce manual effort required to define mappings

▶ Find mappings missed by error prone manual work

▶ Bootstrap data lineage project to demonstrate value

▶ Discover data flows based on data sampling