

BUSINESS REQUIREMENTS DOCUMENT (BRD)

SUMMARY

The proposed **Bad Graph Linkage Identification** business requirement is to enhance our network graph with a reverse-value-similarity algorithm to identify potential nodes that should not have linked.

SCOPE

- Implementation of a reverse-value-similarity algorithm to identify potential nodes that should not have linked
 - I.e. “show me the most dissimilar values for that field on X node”
- Then click on “SHOW SHORTEST PATH” from current node to dissimilar node to identify Connection Gap
- Show different unique values for each canonical (used in Connect) within the TID to identify incorrect ones

PRIORITY

HIGH

STATUS

PROPOSED

BUSINESS DRIVERS

- Improve Product usability by identifying tuning opportunities to improve accuracy
- Reduce manpower by accelerating time-to-insight for resolution issues
- Improve Product data quality by fixing identified issues
- Optimize cost by identifying and mitigating widespread data quality issues that can result in performance bottlenecks and higher compute

CURRENT WORKFLOW

NONE

PROPOSED WORKFLOW

- On the Network Graph screen in Validate, when a user clicks on a node, they can choose to see the most dissimilar value for a field used in their Connect logic
- When the user chooses to see the most dissimilar value, they can choose to see the shortest path to that node. When clicked, the subgraph is loaded to show that path
- On the Network Graph screen in Validate, there is a panel to see the different unique values (within the TID) for each canonical used in their Connect logic

FUNCTIONAL REQUIREMENTS

- For a given Connect field and Tresata ID node, show the most dissimilar value within Tresata ID
- Show shortest path from current node to dissimilar node
- Show different unique values for each canonical (used in Connect) within the TID

SECURITY

- Queries and responses stay within private cloud
- Any external tools are vetted. Regular audits and vulnerability assessments are performed to mitigate potential risks

ASSUMPTIONS

- Infrastructure can support proposed enhancements without significant upgrades

CONSTRAINTS

- Timeline & prioritization

FUTURE SCOPE

Automate Prepare/Connect modifications to resolve bad linkages

STAKEHOLDERS

- Sponsor - Vijayanto
- Product - Anish
- Engineering - Vijayanto

VERSIONS

Version	Date	Author	Changes
1.0	27 March 2024	George	Initial draft