Solidatus for BCBS 239
Risk Data and Reporting: Global Investment Bank

CHALLENGE

For our client, a Global Systemically Important Bank (G-SIB) with listings in Frankfurt and New York, it became glaringly apparent that their existing Data Governance system was inadequate as they assessed the BCBS 239 regulatory ask against their risk data aggregation capabilities and internal risk reporting practices. The existing tools had bottlenecks in operational processes, were inflexibly designed, had functional gaps, and alienated users with a lack of usability resulting in data quality issues exacerbated by an inability to run effective Data Quality (DQ) analytics.

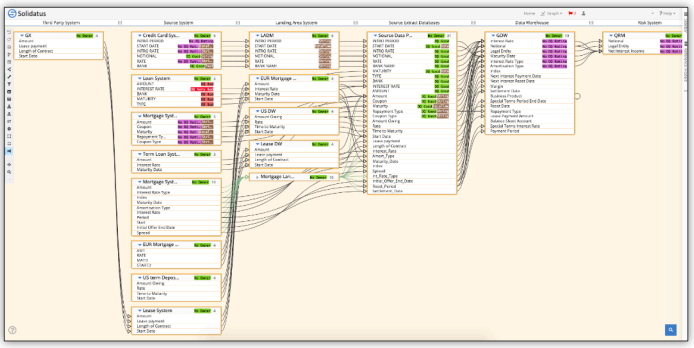
BCBS 239 reporting needed to incorporate their diverse siloed systems landscape over countries and corporations, as well as an Oracle Data Warehouse containing 30 source systems with countless calculations and data transitions embedded in SQL within hierarchies. Add an ever-increasing volume of critical data elements and the complexity of the journeys, it became obvious they needed to look at new solutions to link all of this.

SOLUTION

To meet this challenge it was clear to them that they required a fit-for-purpose metadata management process and data lineage solution. Solidatus was chosen in part due to failings of their existing systems but also because it could integrate and improve DQ in them, while also bringing visually impressive end-to-end lineage with collaboration and version control. "In principle, we preferred simple and intuitive systems for our users and ultimately, it made sense that an auditor should be able to easily and comfortably carry out a 'data chain' review."

The first step was to create a Data Dictionary uploading into Solidatus over 80% of fields and relationships determined automatically utilising the Oracle Data Dictionary tables and tailored PL/SQL routines. The remaining 20% were populated utilising Solidatus' collaborative version control. "We understood early that complex data hierarchies and relationships had to be verified and Solidatus' collaborative version control meant we had an audit trail of this. We had a tight timeline. Within two weeks we had all of the lineage of the system-relevant reporting fields modelled in Solidatus."

As they built this integrated data taxonomy and architecture model they developed a column dependency table to capture and automatically update relevant fields from the data-warehouse, and additional systems, as well as all reporting fields mapped with source and target definitions. DQ rules were coded into Solidatus which automatically notify assigned owners of breaches. While most data lineage is automatically loaded, via the Solidatus API, version control means manual updates are possible and also tracked.



Key to their solution is "to ensure our Prod models are aligned with our Pre-Prod and UAT models" bringing a DevOps cycle which significantly reduces their change risk.

RESULT

Visualisation to simply share BCBS 239 data lineage in an interactive and dynamic format, allowing for greater transparency, communication and control for the Business, IT and Audit purposes.

RISK BRINGS LINEAGE REWARD

KEY POINTS

- Visualised data lineage supporting risk reporting and a reference point to prove the outcome of the report to both regulator and senior management.
- Clear end-to-end lineage visualised at scale down to lowest level diffable to any historic or future point bringing consistency and control enterprise-wide.
- Oracle data-warehouse subject matter expert knowledge has been institutionalised in Solidatus removing Key Person Risk.
- Two weeks to set up Data Dictionary and identify all system-relevant reporting fields.

ABOUT SOLIDATUS

Solidatus is a specialised, powerful and modern data management tool. The simple, intuitive and flexible web-based application allows organisations to rapidly discover, visualise and understand how data flows through their systems and the relationships it has.