

Successful integration of complex data sources into business critical reports for multiple stakeholders



Our client – Guardian Financial Services – had five separate sources of highly complex data. These needed to be blended together (with complex actuarial formulas applied) in order to provide key integrations and improved management information for the organisation’s operations and finance teams, as well as the Financial Conduct Authority (FCA).

Fusion not only connected, extracted, cleaned and transformed the data, we also output it to the required environments and in user-friendly reports to meet the management information reporting requirements.

The situation

Guardian Financial Service’s data for this assignment were spread across SQL server databases, corrupted XML files, Excel files and three APIs. They sought a blended approach which was essential for a number of key business areas including:

- Credit scoring
- Valuing the insurance book
- Operational workarounds
- Processing payments
- Prompt identification of fraud cases

Around 10 business critical integrations were needed, along with 140 general business management information (MI) requirements.

Our solution

We created an Extract Transform Load (ETL) in WPS Analytics. It connected the disparate data sources, extracted the data, cleaned and transformed them by applying the required complex actuarial formulas. The data was then outputted to designated environments for the different stakeholders. These environments included APIs, SQL databases, Excel and XML files. We helped Guardian Financial Services review various reporting tools such as Tableau, Google Data Studio and PowerBi. They chose PowerBi and we are currently liaising with them to provide bespoke reporting solutions which met the MI requirements of different business teams and the FCA.

The assignment required a flexible solution which adapted as the business grew. We also had to deploy the solution quickly to meet key business deadlines for the organisation.



We were really impressed by Fusion Analytics. Their accreditations and experience were reassuring and they certainly lived up to their reputation. During the course of the project they were able to flex to changing requirements and also came in on budget. Working with their team was a very positive experience and they certainly made our lives a lot easier despite it being a complex assignment.

Chief Technical Officer, Robin Gardner, Guardian Financial Services



Tech stack used in the assignment:

