Company Overview

Iberdrola, a global energy company based in Bilbao, Spain, is the leading producer of wind power and one of the world’s biggest electricity utilities, supplying energy through its core operations and network of subsidiaries to over 100 million people in Spain, United Kingdom (Scottish Power), USA (AVANGRID), Brazil (Neoenergia), Mexico, Germany, Portugal, Italy, and France. With over 34,000 employees, Iberdrola maintains a focus on clean energy, digitization, decarbonization, and “green recovery” in the post-COVID era.

Business Challenge

In an era when business moves at the speed of light, successful companies must be able to put new software and functionalities into production systems quickly while ensuring high quality and compliance with privacy regulations.

To do so efficiently within a DevOps environment, developers, test managers, and analysts must use accurate and intact datasets and understand their relationships to each other while taking care to maintain confidentiality and reduce the risk of exposure of sensitive data within test environments. This capability is especially critical in environments where dozens of teams work on different software development projects.
**BMC Solution**

Well aware of this imperative, Iberdrola has used solutions from BMC Compuware to accelerate the delivery of new software while increasing testing quality.

In collaboration with IT consultant Sopra Steria, Iberdrola has launched a test data anonymization service that enables the company to perform selective data extractions with obsfuscation from the production environment.

> We can add new data from production to the test database incrementally, which is really innovative since most organizations choose to perform total copies of the database.

---

**Aníbal Rodríguez | Head of Technical Design and Commercial System Service Quality | Iberdrola**

The project was implemented using the Iberdrola Commercial System database. Looking to improve upon the previous method of extracting and anonymizing data with dozens of programs within an IBM® Db2® host environment, Iberdrola opted for the advanced editing and visualization capabilities of BMC Compuware Topaz for Enterprise Data and the tool’s options for obsfuscation and incremental application.

The project began with data model analysis, including the identification of data elements most likely to be anonymized as they passed between environments, and analysis of that data’s behavior. Based on these analyses, processes and masking rules were designed for over 800 relevant tasks.

This number of tasks is in line with the complexity of the Iberdrola Trading System, whose database includes more than 7,000 tables, of which 3,346 are refreshed. Seventy-five of these tables, totalling more than two billion rows of data, had to be obsfuscated with the added challenge of managing customer data, such as DNIs, passports, bank accounts, and other personal data, which change from one country to another. The project also included 11 look-up tables with a total of 33 million rows of data.

**Business Results**

With this pioneering initiative, Iberdrola has increased the quality, speed, and efficiency of their software development and delivery while maintaining the privacy of test data in compliance with GDPR regulations.

The same obsfuscation rules apply to total and selective extracts within a fully valid and anonymized Trading System database.

Currently, obsfuscation rules have been established for seven different data elements, applying encryption (customer identification document with distinction by country, telephone, fax, and mail) and hash methods (name, street, bank accounts). By grouping fields and columns into the same category and masking them with the same rule (instead of masking each field and column) BMC Compuware Topaz for Enterprise Data has reduced the complexity of test data.

> One of the most powerful options of the BMC Compuware tool, one that we have used massively in the Iberdrola project, is the use of the translation tables, in reference to the ability of BMC Compuware Topaz for Enterprise Data to select an obsfuscation method, select the values, and replace them.

---

**Koldo Arriaga | Senior Manager | Sopra Steria**

The preparation of data and “look-up” in total obsfuscation processes has been reduced to a period of three to four days. As Aníbal Rodríguez describes, “We have managed to launch it on a Friday afternoon and count on Sunday billions of obsfuscated rows; after validation, a total refreshment is made in the preparation and pre-production environments, and then according to the business, we load the data in the integration environment, which is highly complex because of the number of projects that are developed against that database.”

The company has also gained agility and efficiency from the ability to make selective or partial database obsfuscations, giving them more capacity to generate test environments adapted to different applications.

Along with change management to facilitate the adaptation of developers/test managers to new obsfuscation rules, collaboration has been key to the success of this initiative. According to Koldo Arriaga, senior manager of Sopra Steria, “In the success of this project, the connection and joint work of the three legs has been fundamental: BMC Compuware; the customer, since no one knows their data models better than they do; and we, as a service provider.”

---

**Learn more:**

[Visit BMC Compuware Topaz webpage](#)