

CLIENT:

STATIN is the Government of Jamaica Department responsible for, collection and analysis of all national statistical data. They also abstract and publish statistical information in relation to commercial, industrial, social and economic and general activities of the people of Jamaica, to take the periodic census in Jamaica.

PROBLEM:

Data from various sources and formats (electronic & paper) are received by STATIN, where data entry clerks enter the data in different systems (Excel/PC or bespoke mainframe systems).

Statistics produced for national reporting like Import/Export data, Demographic survey data etc had lengthy delays in collation and verification, still leaving room for errors. These delays effected the credibility of the Govt agency as a central organization for reporting domestic and regional statistics for Trade & Demographics.



REQUIREMENT:

A system was needed that automated information capture and validation and facilitated easy error correction to produce a clean data repository. Statisticians would use the clean repository as a source for speedy and accurate reporting using tools like SAS, SPSS etc

Programs are developed to parse and load with data arriving in various formats like Comma Separated (CSV) files, XML, Excel etc. Custom Validation programs validate the loaded data with user defined Business Rules. Errors are reported in a Correction screen where specific messages drive the user to make the corrections fast and accurately.

For data arriving in paper format, data entry screen allow the user to enter the data which is kept in a staging area till its scrubbed by the same Validation programs that run on electronic data, thus avoiding duplicate implementation of business rules.

Service Oriented Architecture is used to pull data from sources using Web Services and to implement the Validation Rules for data coming from various channels.

The end result is faster validation and correction of Government data for easier and accurate reporting thus aiding in management decisions for regional and domestic commerce.

OUR ROLE:

Caribsoft India prepared the technical proposal for the project IBM Jamaica through its partner in Jamaica, Complete Business Solutions Ltd.

The technical proposal was accepted by STATIN and the total solution, involving five modules viz. Trade, Demographic, Survey, Company Registry, Media Clipping, was developed in a Turnkey basis by Caribsoft India.

Caribsoft India did the project design; development, testing and implementation on an onsite/offshore model with an onsite coordinator and development/testing team in its offshore centre.

TECHNOLOGY

IBM WebSphere/JAVA-J2EE was used to develop the project and IBM DB2 database hosted the data repository. IBM Rational Design and Configuration Management tool was used for modelling and version control.

Web Services was used for inter-system communication to pull data from various sources as well as to interact with SAS for statistical sampling.