

## Boardwalk Enterprise Spreadsheet (BES)

### Application Case Study

#### *Customer Profile*

India's second-largest bank with total assets of about Rs. 2,513.89 bn (US\$ 56.3 bn) at March 31, 2006 with a network of about 800+ branches and extension counters and over 2,200 ATMs.

**Application:** Forex DTR

*Purpose: ....*

The Purpose is to Re-value all the Outstanding Forex Contracts as on particular day. It also involves the Re-valuation of all the Balance sheet items (Foreign Currency) i.e. Investments, Loans, Call Money lending & Borrowings, Nostros etc.

DTR also involves the amortization of Premium on Funding Swaps.

#### *Current Process...*

Involves 4 data dumps coming from multi-systems daily in various formats- .csv, .txt, .tmb.

This data is massaged, cleansed, filtered, formatted and merged/pasted in 2 master workbooks which update the linked sheets, other workbooks and cells.

The process is repeated daily and each version of the updated master workbooks and the dumps are saved on the common data server.

The process involves 21 error prone manual activities each having multiple actions totaling 115 individual steps to be performed on MS Excel format.-

#### *Process Issues...*

- No understanding of who is accessing which data.
- No mechanism to know who has made what changes to the data, when, or why across multiple spreadsheets down to the cell level.
- Difficult to trace change-management & activity level on individual spreadsheets;
- Difficult to detect changes in formulas;

- Hard to track necessary multiple versions of the spreadsheet;
- Difficult to track errors or fraud due to lack of audit trail;
- Limited ability to create trend analysis;
- Non-compliant with SOX.

*User Issues...*

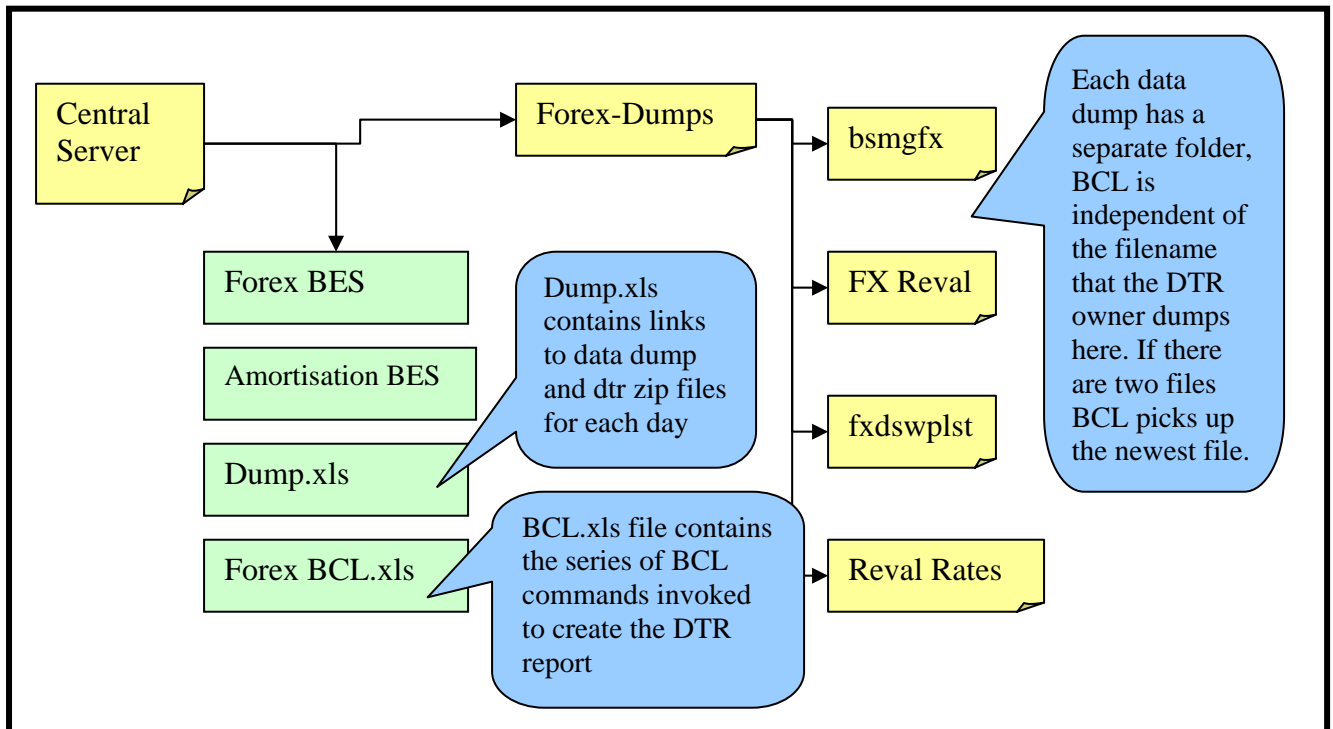
- Routine & repetitive work is an environment for error;
- Managing changes is time consuming because multiple versions have to be collected from various participants according to different timelines;
- Creating reports is time consuming since different reports have to be created according to role & management appropriate needs

*BES Implementation Process...*

**Steps**

- Document current spreadsheet-based process
- Define information model flow
- Define automation steps
- Develop appropriate Boardwalk Command Language scripts to support automation
- Test & implement
- Automate report generation

The Forex BCL File Structure maintained on a central server is as follows:



### *Process Benefits...*

- ✓ Reduced manual processes & eliminated process-related errors;
- ✓ Established "single version of truth" central repository with role-appropriate access control enabled control, management, and auditability of all data, macro, and formulae changes;
- ✓ Delivered browser portal access to automatically generate reports showing updates at table, baseline, row level, cell level - any reports of any time vs and parameter of the table;
- ✓ Statutory Requirement is to store the raw data for stipulated time period from which reports are generated. We therefore zip and upload it in a single cell in the secure environment of the database;
- ✓ Established SOX compliant process;
- ✓ Reduced hard-disk, server space as this process was monitored for 6 months and in normal course it would have taken 5 GB space and with BES it took 1 GB space.

### *Why BES for financial applications?*

For effective decision making, the most essential requirement is accurate, reliable, and secured data at every level including spreadsheet-based data that meets internal/external compliance requirements-

BES provides a secure spreadsheet database solution which provides -

- An Enterprise quality, industry standard database backend
- Changes after initial implementation are easily accommodated
- Works with other enterprise applications & data
- Require no data sharing on emails;
- No save as, as ....
- Provides Single Version of truth;
- No need to consolidate data;
- Data Onus;
- Audit trail of all data in a table, row & cell;
- Data Integrity;
- Error free;
- Data becomes non person centric;
- No one can tamper the data in transit or in database;
- Facility to drill down;
- Reports of comparatives between anytime and with any parameter in the data;
- Validation at any desired point
- Each Business User views the data & Reports relevant to them;
- **Makes your Reporting compliant to all environments like SEBI Clause 49, BASEL II, SOX Sec 404 & US GAAP**