

Designing Centralized Data Repository and Interactive Analytical and Reporting Solution

The Customer:

The customer is an American pulp and paper company that was formed in April 2005 by industry veterans to establish operating businesses in the paper, packaging, forest products and related industries.

The Challenge:

The company had an executive dashboard which is mostly comprised of static excel and pdf based reports which are generated manually. Some of the key reports were built manually as it gets data from disparate data sources across databases and flat files.

Dashboard reports being static in nature do not provide near real-time decision making capability or ability to perform interactive data analysis and trending.

Key requirements included:

- Building a robust and scalable centralized data repository.
- Data models for each line of businesses
- Use SharePoint as the centralized collaboration platform for all BI reports and analytics.
- Automate production data flow from various mills and department with a capability to review it intermittently.
- Provide an excel based capability for Self-service analytics against data models.

WinWire Solution:

WinWire built a real-time highly analytical dashboard hosted in existing SharePoint environment to provide rich analytical capabilities for business insights. We designed multi-dimensional cubes to facilitate fast analysis of data from multiple perspectives and source systems.

Data flow was channelized to be extracted from variety of data sources and is loaded into a staging database to be merged and cleaned. It is then transformed based on predefined categories, time dimensions and detail level allocations and loaded into the customer's data warehouse. Staging database serves as the source for near real-time operational reporting and the data warehouse is the source for cubes, dashboards and analytical reporting



Benefits:

- Data consolidation & cleansing
- Staging & Data Warehouse for operational and analytical reports
- Executive Dashboards with ability to drill down/through into details
- Analytical model for highly interactive dashboard & ad-hoc reporting
- Automated capture of production data from different locations

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