

TekLink Building an accurate system to better plan and forecast the demand using MS Azure and Power BI



Business Objective

- The client wanted a bi-weekly waterfall report to compare the forecast and the actuals of the previous twelve months and the rolling twelve months from the reports.
- Track the incoming inventory of the second plant while in transit.
- Ability to get accurate status reports to plan
- Ability to visualize a time-dependent status of materials

Client

- The client is an American manufacturer, marketer, and distributor of consumer and commercial products with an extensive portfolio of brands.

Industry

- Manufacturing

Function

- Supply Chain and Logistics

Technology

- MS Azure and Power BI



The Solution

- The Team analyzed the existing business processes for change movements, architecture, and the overall system.
- The team analyzed and identified the enhancements required in the client's SQL DW Model View, Azure Analysis Service (AAS) Models, and Power BI Reports.
- Several Data sources were combined as per the requirements, acting as the primary data source.
- The TekLink Team created various system collaterals to be used for generating the necessary reports.
- The Team also optimized the model to hold vast amounts of data using the optimal partitioning strategy, reducing query time, improving Data Analysis eXpressions (DAX) measures.
- We also created Power BI Reports to ensure fewer usage of AAS Resources.
- We created the provision to use excel when directly connected to the AAS Models



Outcomes and Benefits

- Unified reporting helps business to plan in a single place using just one tool.
- Ability to plan better by keeping a check on demand forecast materials.
- Ability to quickly analyze the difference in the actuals from the current year to the previous year for more accurate forecasts.
- The new system helps the client identify the under-forecasted and over-forecasted materials.
- The monthly reports allow the planner to drill down and plan at Business Units, Plant, Material, Customer, Sales Region, and many others.
- The reports help the planner to measure and compare various KPIs over time.