

Business Requirement Planning System Streamlines Motorola Resource Management

Motorola's Paging Products Group (PPG) needed to streamline the existing Business Requirements Planning (BRP) process and improve communication, which in turn would lead to improvements in inventory and factory resource management. The existing software tools used for data analysis, modeling and manipulation consisted of SAS and Microsoft Excel. These tools were limited in their ability to handle expansion and compromised the integrity of the data. PowerVision's solution improved forecast accuracy, reduced clerical effort and reduced overall inventory.

A Goal of Lean Manufacturing...

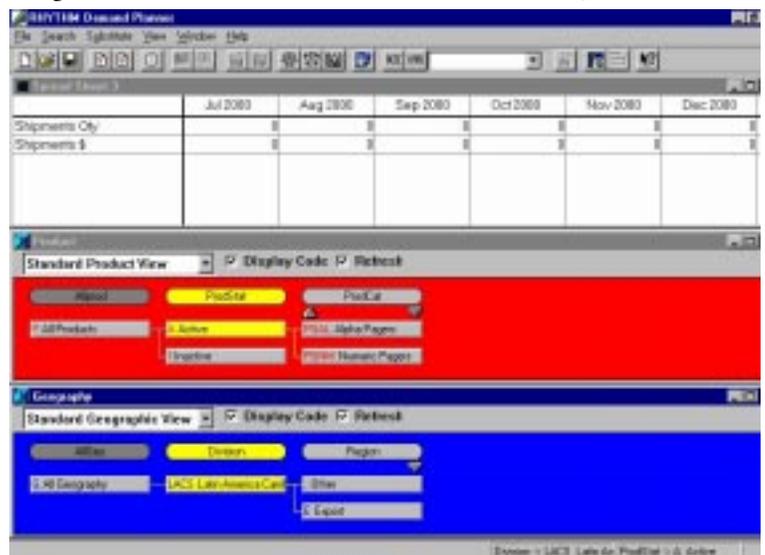
Motorola PPG needed a solution that would allow all of its facilities around the world to plan their material and labor. Major objectives included increased forecast accuracy, communication of forecast information on a timely basis and increased customer service measured by attainment of customer requested shipping date objectives. Another large requirement was to reduce the overall inventory, and order cancellations due to raw material outages. Essential to the system were centralized data repositories that would enable business planners to model current business conditions and market trends.

An Integrated Solution

PowerVision designed the new BRP system based on i2 Technologies' demand planning software suite, Demand Planner and Demand Analyzer. For in-depth analysis, the system was integrated with Microsoft Excel – a custom PL/SQL

interface extracts data from the client's Oracle-based database warehouse.

PowerVision also provided an automated system employing AppWorX scheduling software for performing Oracle data extraction, Demand loading and daily refreshes of historical information.



Business Area:

- Business Resource Planning

Key Technologies:

- Demand Planner
- Demand Analyzer
- Microsoft Excel
- PL/SQL
- AppWorX
- Microsoft NT Server
- Insignia Ntrigue

PowerVision's Role:

- Analysis
- Design
- Implementation
- Training

PowerVision Solution—Business Requirement Planning System Streamlines Motorola Resource Management

The PPG sales organizations are responsible for providing forecast data on a timely basis to aid the factory in planning and resource management. Usage of Insignia's Ntrigue operating system and Mac Net Client software allows the Macintosh equipped sales staff to connect to an NT Server. Remote execution of the Demand Planner/Analyzer applications allows for data entry and reporting for the mobile sales organization.

World Wide Implementation

Initial design and deployment of the system was for PPG's North American Paging Subscriber Division located in Boynton Beach, Florida. The Oracle-based, data warehouse in this location was also adopted as the legacy data resource for deployment of the European Paging Subscriber Division in Dublin, Ireland and for the Latin America Paging Subscriber Division in Boca Raton, Florida. A separate data warehouse residing in Singapore provided the data feed to the Asian Pacific Paging Subscriber Division and also provided the Greater China Paging Subscriber Division in Hong Kong, China with historical data. Each division acquired a separate NT Server to house the Demand Planner database. Several divisions without a need for Macintosh connectivity did not employ Ntrigue servers.

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During the prototyping phase, teams from PowerVision and Think Systems (now a part of i2 Technologies) promptly implemented the project despite a large number of client-initiated changes. The PowerVision team worked jointly with the vendor's team on the database design, technical and user application training and support for all of the clients' organizations worldwide.

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