

Surtel Technologies

- Case Study -

Advance Planning System (APS) Integration
Issue with Oracle JD Edwards (JDE)



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Solution Summary

Our goal was the improvement of the supply chain planning process, which most of our clients manufacturing sites have implemented or are looking to implement the Advance Planning System (APS – Oracle APS, J. D. Edwards Numetrix, Logility, and Gain Systems) and integrating with traditional ERP system like Oracle JD Edwards, SAP, etc.

Traditional ERP Distribution Requirement Plan (DRP) is unconstrained and does not provide efficient capacity, resource and inventory planning. Companies are using APS to generate constraint finished goods SKU's/Items/Products plan (production plan, replenishment plan, purchasing plan). APS will generate planned messages (work order, transfer order, purchase order) and depending on clients setup and requirements, planners will act on these planned messages in the APS system and generate firm released orders (work order, transfer order and purchase order). Both planned messages and actual firm orders will be transferred into JD Edwards ERP system. Planned messages will be stored in the message detail table and released orders will be actual orders in work order, sales order and purchase order tables in JDE.

When planned messages get transferred to JDE from APS, the client would like to generate lower level requirement based on finished goods messages generated from APS, and run Material Requirement Plan (MRP) in JDE to generate lower level demand.

There are many challenges which every organization faces when they are integrating Advanced Planning System with J D Edwards EnterpriseOne ERP system. The solution to the generation of lower level demand is below..

Solution Profile

When a combined MRP/MPS/DRP is run on the demand source, sales orders and/or forecast generate planning messages which go to Planning messages detail table, Bill of Material (BOM) Pegging for multilevel component planning and time series for lead-time planning. The end result is planning messages for the parent down to lowest level of bills.

At this point all the planning messages, all levels, reside in the message detail table, until acted upon either manually, semi-automatically, or through batch processing, from the planner.. Once this occurs, records are generated from the message detail table to the work order header, purchase order header and detail and transfer order header and detail tables.

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As a result, there are no work orders, purchase order header, or detail commitments until required by the planner, buyer or business process definition.

Because the APS planning messages go directly to the message detail table (DESTINATION OF NORMAL MPS/MRP RUN) "WITHOUT' MULTI-LEVEL BILLOF MATERIAL DETAIL INFORMATION, the required data is not populated with the detail information required to do the multi-level planning. In order to view multilevel time series planned order (PLO) messages, as in the standard planning process, enhancement to the MRP process will be required.

Surtel has designed and developed solutions to generate lower level requirement from the planned messages coming out of APS system. Surtel solution is very innovative, creative and robust using industry best practices. Surtel utilized JDE standard process/programs to the full extent before creating any custom application or modifying any source code. All enhancements and new development are done using JDE native proprietary tool sets. Customizations designed by Surtel are integrated solutions resulting in easy ESU, SAR, patch or upgrade implementation.

Distinguishing Feature

Our goal is to exceed your expectation by partnering with you to plan, strategize and execute tactical elements of the solution on time and in budget. We have implemented the above solution at our client sites and have achieved our goal in the improvement of the supply chain planning process.

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