



QAD DYNASYS DDMRP

DEMAND DRIVEN MATERIAL REQUIREMENTS PLANNING

Demand Driven Material Requirements Planning, “DDMRP,” offers a compelling visual process to execute material requirements planning driven by a true demand signal. DDMRP provides a proven, dynamic and effective demand driven solution to answer the complex challenges of the current manufacturing landscape. When used across a supply chain, DDMRP removes the cascading and compounding disruptions of the bullwhip effect that plague most

supply chains today. DDMRP provides customers a planning experience that is agile and responsive – characteristics seldom found in traditional planning methods. DDMRP applies to a wide array of industries and is quickly being adopted by leading companies across the world. It is intuitive, pragmatic and transparent. Facilitate by the Demand Driven Institute, the DDMRP approach is a revolution in supply chain planning.

VALUE AND BENEFITS

[QAD DynaSys DDMRP](#), which is integrated into the QAD DynaSys Demand & Supply Chain Planning (DSCP) end-to-end solution, simplifies planning and managing inventories and materials in complex supply scenarios. The DDMRP method enables a customer to decouple forecast errors from supply order generation and develop plans inline with actual market requirements. QAD DynaSys DDMRP promotes more efficient and effective decisions and actions at both the planning and execution level.

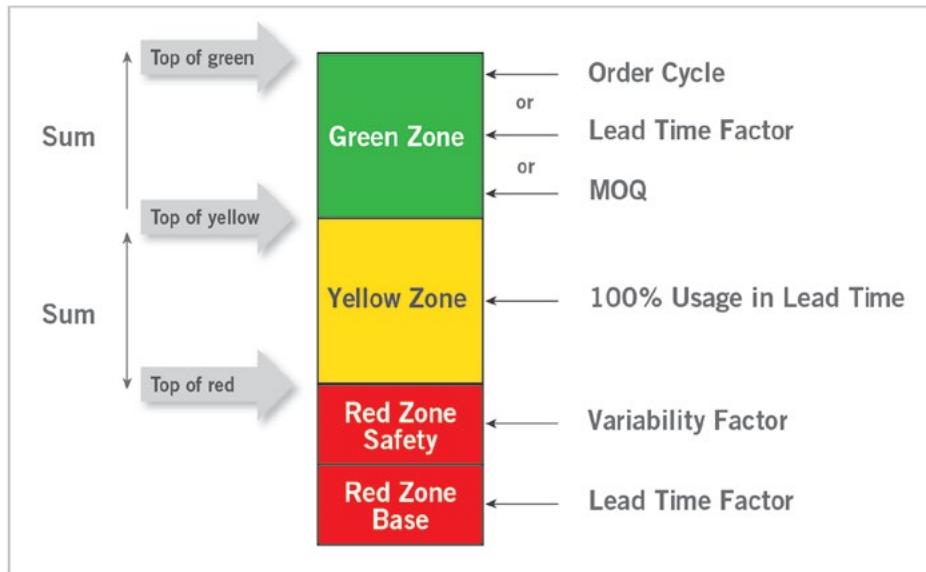
Configure

Rethink your supply chain into a system of decoupled lean demand and supply networks. Strategically identify where inventory should and should not exist. Profile your portfolio to determine how much inventory needs to be maintained at each decoupled point. The buffer levels are computed adhering the standards of the Demand Driven Institute:

- The green zone buffer covers supply constraints, such as minimum order quantity, lead time or order frequency
- The yellow zone buffer covers the average demand during the item decoupled lead time
- The red zone buffer covers the demand variability and adjusts with lead time

Plan

With QAD DynaSys DDMRP, the daily planning role is executed in a simple and intuitive manner. The solution analyzes the buffer positions plus any qualified demand spikes and generates suggested replenishment activities. Suggested replenishment is prioritized by the rate of yellow or red zone penetration. This ensures the highest priorities activities are serviced first. DDMRP provides a true respond planning experience. Activities may be performed daily, hourly, or on-demand.



Execute

Unlike MRP, the process DDMRP does not stop once replenishment is confirmed. Rather, it provides a visual and collaborative process to support execution with dashboards and custom alerts. The solution continually assesses exceptions and prioritizes for potential action.

Benefits

- **Improve Supply Chain Efficiency.** DDMRP reduces uncertainty, volatility, complexity and ambiguity; all factors that are often responsible for degrading supply chain efficiency
- **Improved Customer Service.** DDMRP customers consistently achieve 97-100% on time fill rate performance
- **Lead Time Compression.** Lead time reductions in excess of 80% have been achieved in several industry segments. This not only reduces inventory but improves customer satisfaction and provides competitive differentiation
- **Right-sizes Inventory.** Typical inventory reductions of 30-45% are achieved while improving customer service¹. DDMRP reduces the reliance on often erroneous forecasts so excess stock is not built due to speculative demand plans
- **Lowest total supply chain cost.** Costs related to expedite activity and respond to false signals are largely eliminated, including express freight, partial ships and schedule disruptions
- **Simple, Visual, and Intuitive.** Planners see clear, color-coded priorities instead of constantly trying to understand messages from MRP
- **Optimizes Product Flow – Increases Return on Capital.** 30-45% less cash is tied up in inventory¹

¹Source: Demand Driven Institute

KEY FEATURES

- Provides ordering and expediting signals based on actual consumption
- Dynamically adjusts range of target inventory by item based on item history, recent consumption and known future events
- Intuitive and simple to use. Uses theory of constraints priority grading. Green is good, yellow is act, red is bad
- Monitoring and alerting support execution using dashboards and custom alerts. The solution assesses exceptions and prioritizes for potential action
- Comprehensive graphical views including visualization of order spikes and exceptions
- Inventory buffers are defined by product profiles, which minimizes configuration and set up. Automated buffer level calculations and manual buffer level adjustments are made in the QAD DynaSys DSCP data model.
- Works in conjunction with QAD DynaSys DSCP finite capacity planning and S&OP capabilities.

TECHNOLOGY

QAD Cloud – Safe, Secure and Available. QAD DynaSys DDMRP solution is available both on premise and in the QAD Cloud. QAD data centers and related cloud services are ISO certified. The QAD Cloud carries SSAE16 SOC I Type II certification, the highest international security standard. Business continuity is assured with comprehensive disaster recovery planning.

Mobility. QAD DynaSys users access the solution via the internet and on mobile devices, providing a modern user experience including touch screen interaction.

Analytics. Through its partnership with one of the analytics market's leaders, Qlik, QAD DynaSys DSCP embeds compelling and intuitive analytics to help users make accurate decisions. Users are able to spot trends based on an extensive set of data, including IoT sources. The solution includes machine learnings to augment users' data and trend discovery and analysis.

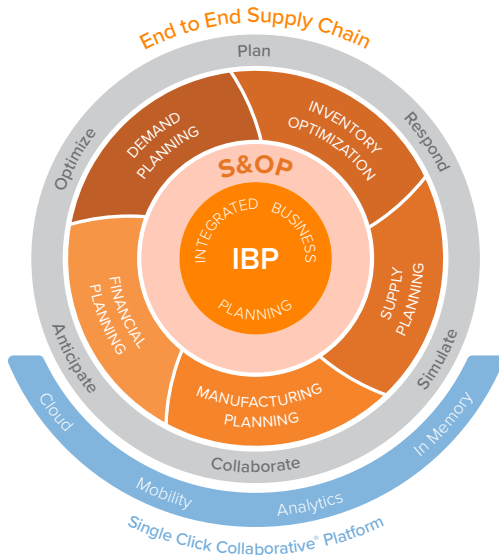
In-Memory. QAD DynaSys DSCP executes in-memory providing highly responsive plans and simulations. This supports real time evaluation of promotions, new product introductions and market animation impact on total forecasted demand. It promotes timely response to demand fluctuations and effective decision support.

Integration. QAD DynaSys supports integration with QAD, SAP, Sage, JDE, Oracle, Infor, Microsoft and other ERP and enterprise applications. It uses a data hub approach to exchange supply chain information across the organization and includes an ETL (Extract Transform Load) tool for building custom integrations.

Availability: QAD DynaSys DDMRP is available standalone or as part of the complete QAD DynaSys DSCP solution.

SUPPLY CHAIN PLANNING IS OUR HERITAGE

QAD DynaSys has been empowering customers to improve productivity and profitability through better supply chain decision-making for over three decades. QAD DynaSys, a division of QAD, invests heavily in research and development to future proof our solutions.



QAD DYNASYS DSCP SUITE

QAD DynaSys DDMRP is available standalone or as part of the end-to-end QAD DynaSys DSCP solution.

Solutions Offers

- Demand Planning
- Distribution Planning
- Production Planning
- Procurement Planning
- Network & Inventory Optimization
- S&OP
- DDMRP

At QAD DynaSys, we are helping our customers build the future of their supply chains.



Copyright © 2019 QAD DynaSys - contact@dys.com

All rights reserved. The word and design marks set forth herein are trademarks and/or registered trademarks of QAD and/or related affiliates and subsidiaries. All other trademarks listed herein are the property of their respective owners.

www.dys.com

QAD DynaSys Headquarters

Espace Européen de l'Entreprise
Immeuble Le Skansen 3 Allée de
Stockholm F - 67300
Schiltigheim
France
Tel: +33 (0) 3 88 19 14 14

QAD DynaSys UK

Sir Stanley Clarke House Quinton
Business Park,
Birmingham, B32 1AF
United Kingdom
Tel: +44 (0) 121 506 6500

QAD DynaSys USA

2651 Warrenville Rd
Suite 580
Downers Grove, IL 60615
USA
Tel: +1 (805) 566-4500