



Advanced Inventory Replenishment

The Need

One of the critical measures of success for any distribution company is the ability to effectively balance inventory investment and customer service levels. In a typical business with thousands of items, managing this process can be a complex and ultimately unrewarding challenge.

The Solution

The inventory replenishment module harnesses all of the transactional information in your system and applies it to a set of rules and formulae based upon best industry practice to generate realistic and informed demand forecasts. This information is then carried forward into enhanced purchasing functionality that enables the user to optimize order value and volumes based on target order values and volumes, preferred buying frequency, price breaks and vendor promotions. The solution has been developed for Microsoft Dynamics GP and integrates seamlessly making it simple to learn and implement.

The screenshot shows the 'tcs91 Demand Review' window with various filters and a data table. The filters include Site Filter (NEWCASTLE), Creditor Filter, Calculation Method Filter (0), Buyer Filter, Category filter, Item Rank Filter (Rank A only), and AFE Tier (1). The table displays item details such as Item Number, Item Description, Current EPD, Forecast EPD, AFE, Forecast Var., and various forecast levels (-6 to -1).

Item Number	Item Description	Current EPD	Forecast EPD	AFE	Forecast Var.	-6	-5	-4	-3	-2	-1	Calculation Method	Creditor
10000019	CLEAR STD CC 400MM X 300M 17MU HAN...	328	123	39.17%	-62.50%	366	720	109	560	210	0	WSTD5	PURP01
10000159	7101 72MM X 50M 3M HIGH TEMPERATUR...	260	208	20.21%	-20.00%	300	348	288	228	324	72	3PRD RA	MMMM01
10000617	SW7 BUFF 305MM X 229MM X 305MM SIN...	3,000	2,000	32.61%	-33.33%	4,450	1,951	4,100	3,000	3,475	0,000	WSTD3	PURP01
10001106	750MM X 220M BUFF 90GSM PURE KRAFT ...	6	5	37.91%	-16.67%	5	5	9	4	10	2	3PRD RA	PURP01
10001112	BUFF 900MM X 75M CORRUGATED CARDB...	32	28	24.72%	-12.50%	31	36	42	46	27	7	WSTD3	PURP01
10001198	1200MM X 800MM CORRUGATED CARDBO...	7,000	5,000	23.31%	-28.57%	8,000	8,800	9,600	6,583	7,900	2,800	6PRD RA+TREND	PURP01
10002434	2421 25MM X 50M DOUBLE SIDED TISSUE ...	472	308	23.76%	-34.75%	547	536	507	453	645	144	WSTD5	STER01
10004615	WHITE 280MM X 2050MM CORRUGATED S...	3,000	0,000	37.44%	-100.00%	6,000	6,000	4,412	0,000	0,000	0,000	WSTD5	PURP01
10020953	WHITE 101.6MM X 152.4MM THERMAL SEL...	23,000	20,000	28.93%	-13.04%	17,000	42,500	19,000	24,000	32,000	3,500	3PRD RA	FINE13
10027804	3.9 X 16 REINFORCEMENT RETENTION SC...	23,000	20,000	34.16%	-13.04%	19,000	33,000	23,000	30,000	31,000	0,000	3PRD RA	IFL01

Key Features

- Detailed demand tracking

The functionality here mirrors that of Sales Transaction Entry so that known additional charges from a vendor may be automatically logged at time of receipt.

- Automated demand forecast

Statistical tools analyze demand history against a wide range of demand prediction formulas. The system will identify the most reliable predictor formula for each item.

- ABCD analysis

This wizard driven tool categorizes your inventory into fast, frequent and sporadic movers.

- Additional item parameters

This new series of time based parameters is used by the system in purchase ordering calculation, e.g. minimum week's stock and vendor order frequency.

- Intelligent order selection

Multiple enhancements to the Microsoft Dynamics GP Purchase Order Generator enable the buyer to optimize orders, e.g. user vendor price lists*, user alerts for quantity break opportunities and imminent price changes*. New order balancing feature to meet order volume requirements. With line point order suggestion, the system can identify lines that are likely to fall below re-order point before another order is due to be placed.

* This feature forms part of the Vendor Price Management solution which is a pre-requisite for the AIR solution.

- Key performance indicators

Records stock-outs enable analysis of failures to reach service levels. Capture inventory level information at time of receipt for comparison to safety stock. This provides a further check on the reliability of the parameters being used for the item.

- Industry proven tools

By using industry-standard replenishment calculations and applying proven methodologies, you can be confident that your stock levels are being replenished in a timely, accurate and reliable fashion.

What It Means For You:

- Reduced stock levels

Advanced Inventory Replenishment (AIR) ensures that you can reduce your stock levels without any impact in your customer service levels. Furthermore, the use of ABCD analysis enables you to identify those items that need closest attention and those that perhaps should not be stocked at all.

- Improved customer service

With AIR, you can be assured that you will always have enough stock to fulfil your customer requirements, ensuring high levels of customer retention in this increasingly competitive industry.

- Reduced administration costs

By automating your inventory replenishment model, including automatic purchase order generation, you can drastically reduce the time spent on re-order calculations.



Dyanavistics transforms your “I wish we could” into “I know we can” with innovative solutions to provide relief from common business software frustrations—helping you to run your business more effectively and get paid faster. Our applications are used by businesses across a wide variety of industries to extend the useful lifetime of their software investment while improving staff productivity and filling the gaps in collections, delivery, trade promotion and distribution software processes.

Dyanavistics makes it easy to integrate with Microsoft Dynamics GP, Microsoft Dynamics AX, and Microsoft Dynamics NAV, as well as other leading ERP systems. Whether your frustrations result from software shortcomings in purchasing, inventory management, or accounts receivable—we offer solutions that complete the processes and bridge the gaps.



Trinity from Dyanavistics, Inc. is a collection of advanced distribution features that work hand in hand with Microsoft Dynamics® GP to enhance every aspect of your supply chain process. Simply put, Trinity turns the basic Dynamics GP inventory modules into a full-featured distribution powerhouse.

Running a successful distribution business requires more than just inventory management. That's why Trinity was designed to improve every aspect of your distribution operation from Sales, Pricing, and Customer Service to Purchasing & Replenishment, Inventory Control, and Delivery Logistics. Adding Trinity to Dynamics GP makes your business *more effective, efficient, competitive and profitable.*

