



## Allocation and Replenishment Management

Today's consumers have unprecedented shopping options available to them. Now more than ever, retailers must differentiate by providing a superior shopping experience. Whether customers walk away satisfied—or have to look elsewhere to make their purchases—hinges directly on a retailer's in-stock positions. While having the right product, at the right place, at the right time remains undeniably critical, Wall Street demands superior inventory productivity. Traditional approaches to allocation and replenishment are no longer adequate to meet the requirements of the modern retail landscape. A new allocation and replenishment management solution is necessary for retailers to meet increasing expectations for in-stock levels and inventory productivity.

### i2 Allocation and Replenishment Management

Now sellers can ensure maximum in-place availability for vital product inventories. i2 Allocation and Replenishment Management™ is designed to provide comprehensive inventory management and distribution performance.

Built on i2's proven supply chain planning solutions, this tool is designed specifically to provide scalable, constraint-based, multi-period planning for middle- and top-tier retailers. This approach leverages underlying business logic to deliver maximum customer-encountered in-stock and optimum retail supply chain efficiency.

i2 now offers variants of this solution to support the grocery, fashion, and specialty retail segments.

### Planning Features

i2 Allocation and Replenishment Management provides important demand and purchase order planning capabilities. Key planning functions include statistical time-series and rule-based forecasting, dynamic modeling, one- and two-parameter inventory policies, a multi-level demand-based network model, and time-based demand and replenishment plans. Other planning features include support for both hard and soft supply chain constraints, advanced replenishing techniques for slow-moving SKUs, intelligent deactivation of slow-moving items, turn and promotional planning, and push capabilities to accelerate excess seasonal inventory.

Retailers can deploy this solution to automate purchasing and allocation of case pack merchandise, thus reducing break-pack operations while maximizing store sales at the SKU level. This capability includes optimization of case packs and solids, constrained/unconstrained purchase recommendations, and support for excess allocation and "must-ship" rules.

### i2 Platform

The i2 platform, a unique service-oriented architecture, is designed specifically to meet the requirements of supply chain management. The platform includes a layer of technology services such as XML data modeling, a business process workflow engine, and a rules-based programming language.

## Superior Usability

This solution also offers a powerful and intuitive user interface that leverages the familiarity of the Microsoft Excel® environment and that is linked closely to the i2 platform. Key user interface features include an exception summary and detail views that alert planners to problems, and help to minimize planner workloads with prioritized lists of exceptions. The interface also provides access to constraints and parameters that can be adjusted “on the fly” to create “what-if” plans that can be easily compared, side-by-side, with the results of a batch plan.

Capabilities of i2 Allocation and Replenishment Management include:

- Time-phased demand and replenishment plans that provide improved visibility into inventory investment and product flow
- Support for item availability, shipping, receiving and location calendars, effectively dates, pack multiples, and other hard supply chain constraints
- Support for store and distribution center handling and storage capacities, vendor minimums, and other soft constraints
- Restricted subsets available for interactive plan overrides
- Advanced techniques for replenishing slow-moving SKUs, including rate of sale, presentation stock, lead and review time methods
- Batch processing to support intelligent de-activation of slow-moving items
- Integrated planning for turn and promotional items
- Excess and constrained vendor and DC supply allocation workflows
- End-of-season “must-ship” logic to push excess inventory

Benefits of i2 Allocation and Replenishment Management include:

- Better in-stock positions resulting in higher customer satisfaction and better promotional effectiveness
- Increased inventory productivity
- Lower supply chain costs
- An industry-specific reference data model that supports more responsive and consistent allocation and replenishment
- Productivity improvements by managing by exception, and the ability to re-plan rapidly

For more information on i2 Allocation and Replenishment Management and other i2 solutions, visit [www.i2.com](http://www.i2.com).

The screenshot displays the 'Suggested Purchase Orders' page in the i2 software. The table lists various orders with columns for PO ID, PO Group, Supplier, Store, Status, Total Items, Total Value, and On. The data is as follows:

PO ID	PO Group	Supplier	Store	Status	Total Items	Total Value	On
735_3-17278	11895_174969W134B_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	599.7	8/2
735_3-17281	11895_174969W134C_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	599.7	8/2
735_3-17282	11895_174969W134D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	315	8/2
735_3-17297	11895_174969W134D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	315	8/2
735_3-17224	11895_174969W334B_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-17234	11895_174969W334B_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-17240	11895_174969W132A_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-17241	11895_174969W134C_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-17252	11895_174969W134C_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-17252	11895_174969W132B_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	299.85	8/2
735_3-30154	11895_174969W134D_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	210	8/2
735_3-17250	11895_174969W338D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	210	8/2
735_3-17294	11895_174969W138D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	210	8/2
735_3-17281	11895_174969W334D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	210	8/2
735_3-17255	11895_174969W334D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	210	8/2
735_3-30091	11895_174969W340B_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	199.9	8/2
735_3-17250	11895_174969W338D_119	PLAVTEX (PTY) LTD	tiger valley	AUTO_APPROVED	1	199.9	8/2
735_3-30094	11895_174969W138A_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	199.9	8/2
735_3-30094	11895_174969W338C_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	199.9	8/2
735_3-30097	11895_174969W132A_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	199.9	8/2
735_3-30115	11895_174969W134B_121	PLAVTEX (PTY) LTD	blue route	AUTO_APPROVED	1	199.9	8/2

*i2 Allocation and Replenishment Management for retailers provides a highly scalable, multi-period, constraint-based plan to drive higher efficiencies in the retail supply chain, while maximizing customer-encountered in-stocks.*



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