Allocation and Replenishment

Q for Allocation and Replenishment is an easy-to-use solution designed to help the most rigorous and complex retail environments. Our system accurately and easily makes sense of retailers' demand data and makes allocation and replenishment decisions supporting that demand, resulting in increased sales, fewer markdowns, and better margins. Ultimately, Q improves merchandise performance and customer satisfaction by automatically optimizing each SKU across every point of sale.

How? Q extracts the most relevant consumer demand and buying patterns from your data and then translates that data into actionable results. The Q system continuously learns and dynamically analyzes and responds to changes in demand for every product and store location to maximize value for retailers of all types. Results are delivered quickly and easily.

Q is designed to work for a range of retail environments. Product allocation challenges that are nearly impossible to predict with traditional methods are managed easily with Q. Quantum delivers the intelligence and the tools to mitigate all these scenarios in an easy-to-use solution designed to meet the needs of the most rigorous retail environments.

Q for Allocation and Replenishment Offers an Array of Benefits:

Executing to Goals and Strategies: Q lets you achieve your unique/differentiated corporate strategies with microlevel precision.

Demand Forecasting: Gives views of time-phased demand forecasts to aid in understandingof allocation and distribution decisions. Lost sales, seasonality, product life cycles, and promotion data are incorporated into the system, enhancing future decisions by reflecting your unique operations.

Understanding Historical Demand: Q uses SKU, store and day level data to determine lost sales for a true demand in which Q executes for the future.

Understanding Seasonality: Q automatically determines the shape of seasonality based on historical and future demand trends.

Understanding Life Cycle Behavior: Q provides an additional dimension for life cycle behavior in the demand shape to account for the uniqueness of products over the span of their time on the shelf.

Initial Allocations: Performs allocations for products with no sales or inventory history.

Replenishment Planning: Optimizes store and channel distributions for products with ongoing sales and inventory data.
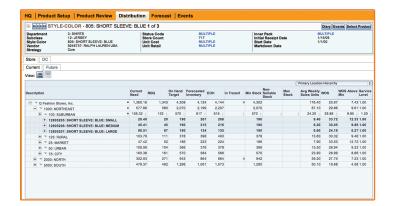
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Supporting Promotions: Q simplifies the everyday complexity of retail inventory management by providing a user-friendly interface to proactively plan for events. Users can deliver inventory to stores just in time, build up stock prior to a promotion, or taper inventory after an event.

Managing Complex Packs: Evaluates trade-offs between alternative complex packs and singles to arrive at the most optimal allocation.

OmniChannel: Q is a hyper-responsive solution that learns and grows with your business in today's complex world, enabling you to adjust and evolve to address the latest challenges within your environment.

International Support: Store-level recommendations to support the uniqueness of localization across many different countries and geographies.

Easy-to-Use: Q highlights exceptions and areas for user review that are easily viewed through alerts. It also optimizes merchandise at a SKU/store level, while allowing users to easily view and manage at aggregate product and location groups.

HQ | Product Setup | Product Review | Distribution | Forecast | Events

STYLE-COLOR - 805: SHORT SLEEVE: BLUE 1 of 3   Diary | Events | Select Product

Department	3: SHIRTS	Status Code	MULTIPLE	Inner Pack	MULTIPLE
Subclass	12: JERSEY	Store Count	717	Initial Receipt Date	1/15/09
Style:Color	805: SHORT SLEEVE: BLUE	Unit Cost	MULTIPLE	Start Date	1/1/00
Vendor	9246737: RALPH LAUREN USA	Unit Retail	MULTIPLE	Markdown Date	
Strategy	Core				

Store | DC

Current | Future

View: Primary Location Hierarchy

Description	Current Need	RDQ	On Hand Target	Forecasted Inventory	EOH	In Transit	Min Stock	Non-Sellable Stock	Max Stock	Avg Weekly Sales Units	WOS	WOS Above Min	Service Level
Q Fashion Stores, Inc.	1,360.16	1,343	4,308	4,124	4,144	4	4,302			176.40	25.97	7.43	1.00
1000: NORTHEAST	577.86	580	2,070	2,199	2,207		2,070			87.10	29.86	9.61	1.00
100: SUBURBAN	156.32	152	570	617	619		570			24.20	29.88	9.85	1.00
12805205: SHORT SLEEVE: BLUE: SMALL	20.40	20	190	267	268		190			9.40	33.72	12.33	1.00
12805206: SHORT SLEEVE: BLUE: MEDIUM	45.41	45	190	215	216		190			8.20	30.05	9.88	1.00
12805207: SHORT SLEEVE: BLUE: LARGE	90.51	87	190	134	135		190			6.60	24.19	6.27	1.00
125: RURAL	103.76	111	378	398	400		378			15.60	30.32	9.48	1.00
25: MARKET	47.42	52	186	223	224		186			7.90	33.53	12.72	1.00
50: URBAN	109.99	104	366	376	378		366			15.50	28.84	9.23	1.00
75: CITY	160.38	161	570	584	586		570			23.80	26.99	8.66	1.00
2000: NORTH	302.93	271	942	864	864	4	942			39.20	27.75	7.23	1.00
5000: SOUTH	479.37	492	1,296	1,061	1,073		1,290			50.10	19.68	4.58	1.00

How Can We Help You?

Translating increasing volumes of consumer demand data into meaningful merchandising plans takes a new level of insight that can only be delivered by Quantum Retail. Q drives millions of decisions for our clients every day. Call today to discuss your unique goals and challenges. Learn how Q can help you maximize the potential of your supply network and your inventory investment.

Q Allocation and Replenishment System Requirements:

Operating System	Database	Web Browser	Client Component
RedHat Linux 5.X+	Oracle 11gR2	Firefox	JAVA JRE 1.6