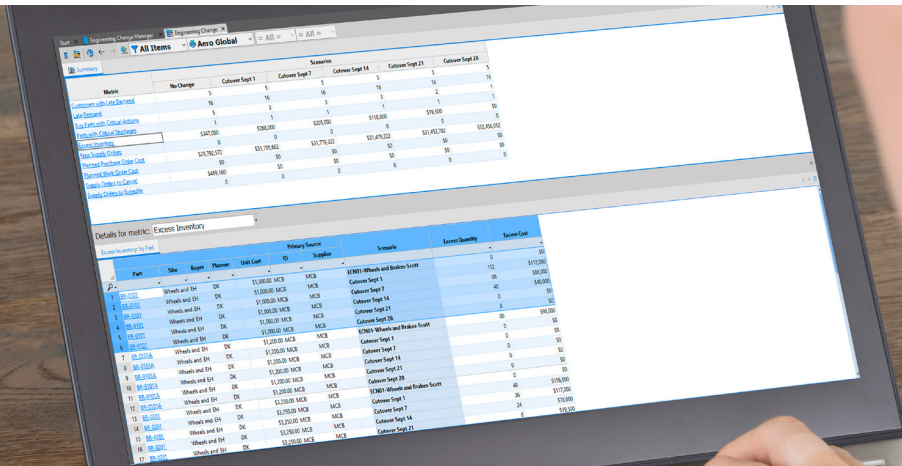


RAPIDRESPONSE APPLICATION BROCHURE



# Engineering Change Management

The Kinaxis® RapidResponse® Engineering Change Management application lets you plan and implement smoother transitions for engineering changes, minimizing risks associated with excess and obsolete inventory.

Timing is everything when it comes to engineering change management. Implement a change too early and you end up with obsolete inventory weighing you down. Implement it too late and you have shortages. With the Engineering Change Management application, you'll be able to implement changes at exactly the right time so you have a clean, cost-effective transition from old to new. Quickly and collaboratively, analyze unreleased changes, evaluate timing impacts against key performance metrics and simulate multiple cutover dates to determine the most effective time for the change to be implemented.

## Business outcomes

- ▶ Analyze the projected impact with full visibility into implementation options
- ▶ Maximize business opportunities and minimize supply chain disruptions with properly timed changes
- ▶ Reduce excess and obsolete (E&O) inventory and risk of material shortages

“ We have reduced the time it takes to complete a what-if analysis by 50% while improving the accuracy of our data.

**IT Project Manager**

Large Enterprise Aerospace & Defense Company

## Application process components

The out-of-the box Engineering Change Management application supports these process steps:

### 1 Evaluate the effect of engineering changes

- Review effective cutover dates against key performance metrics such as excess and obsolete (E&O) inventory, on-time delivery to the customer and margin

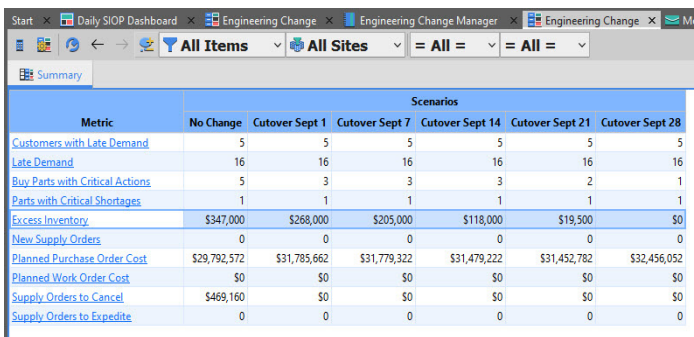
### 2 Simulate multiple cut-over dates

- Review the most effective time for the change to be implemented by comparing any number of cutover date options

### 3 Determine optimal time for change implementation

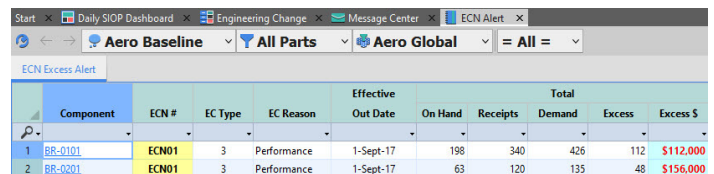
### 4 Create alerts to monitor a planned cutover ✓

- If a change happens that may create excess inventory or shortage conditions based on your current cutover dates you'll be ready to respond in time to avoid those unfavorable conditions



Metric	No Change	Scenarios				
		Cutover Sept 1	Cutover Sept 7	Cutover Sept 14	Cutover Sept 21	Cutover Sept 28
Customers with Late Demand	5	5	5	5	5	
Late Demand	16	16	16	16	16	
Buy Parts with Critical Actions	5	3	3	3	2	
Parts with Critical Shortages	1	1	1	1	1	
Excess Inventory	\$347,000	\$268,000	\$205,000	\$118,000	\$19,500	
New Supply Orders	0	0	0	0	0	
Planned Purchase Order Cost	\$29,792,572	\$31,785,662	\$31,779,322	\$31,479,222	\$31,452,782	
Planned Work Order Cost	\$0	\$0	\$0	\$0	\$0	
Supply Orders to Cancel	\$469,160	\$0	\$0	\$0	\$0	
Supply Orders to Expedite	0	0	0	0	0	

Engineering change scorecard



Component	ECN #	EC Type	EC Reason	Effective Out Date	On Hand	Receipts	Total Demand	Excess	Excess \$
1 BR-0101	ECN01	3	Performance	1-Sept-17	198	340	426	112	\$112,000
2 BR-0201	ECN01	3	Performance	1-Sept-17	63	120	135	48	\$156,000

Engineering change alert

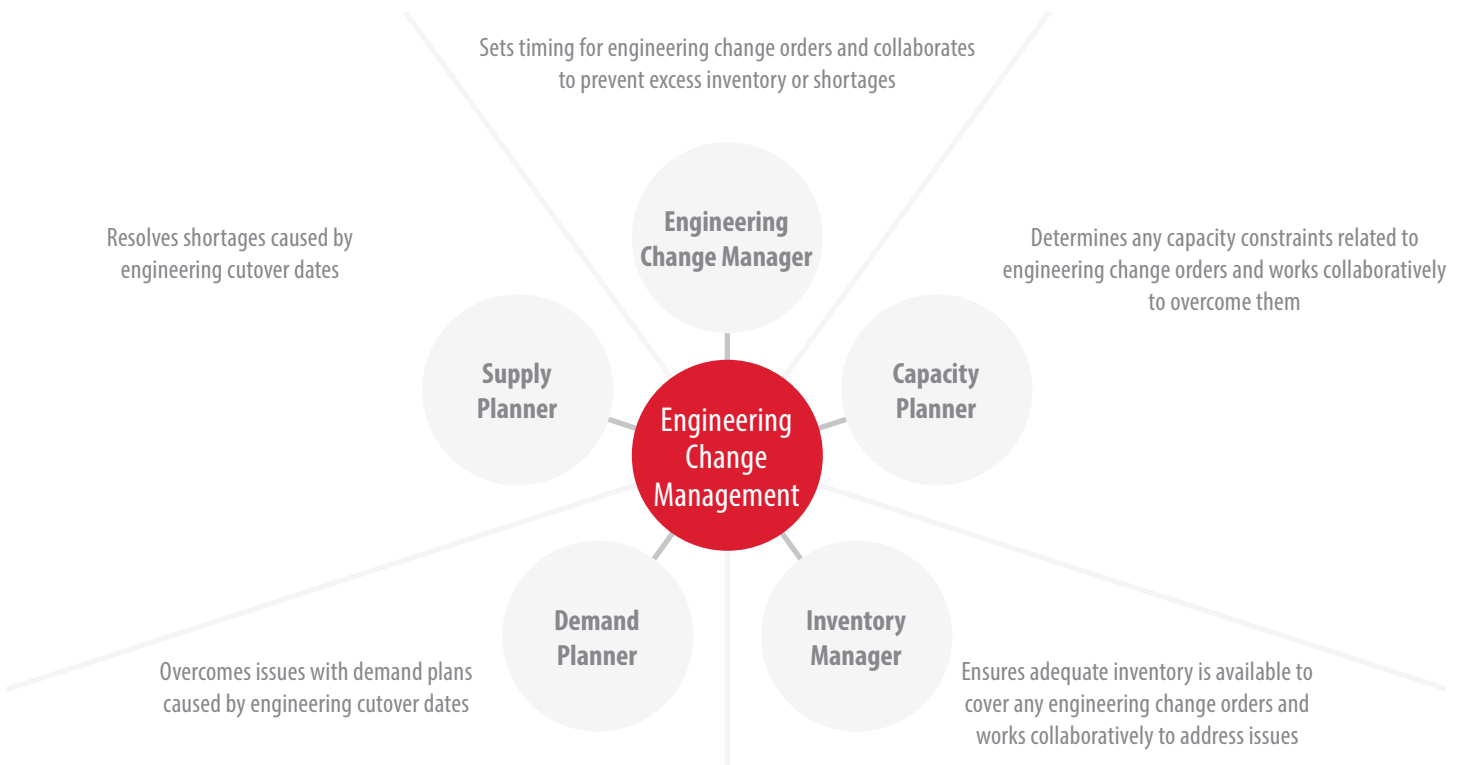
## Managing performance

Standard measures include revenue, margin, inventory value, on-time delivery and constraint utilization as well as metrics associated specifically with engineering change management. This allows for focused analysis of the performance measures most applicable to the function at hand. Measures presented in the Engineering Change Management dashboard include:

- ▶ **Customers with late demand:** Counts the number of customers who have late orders or late unconsumed forecasts affected by the change.
- ▶ **Parts parts with shortages:** Highlights the parts for which the first shortage occurs inside lead time.
- ▶ **Excess Inventory:** Calculates the total cost of excess parts. Excess is present if the current inventory and supply minus the demand is greater than zero, and is valued at standard unit cost.
- ▶ **New supply orders:** Counts the number of planned supply orders for affected parts with no inventory and no scheduled receipts.
- ▶ **Supply orders to cancel:** Calculates the value of supply orders not required to satisfy demand.
- ▶ **Supply orders to expedite:** Identifies the supply orders needed before their due dates.

## Cross-functional collaboration

In the Engineering Change Management application, collaboration occurs across these functional roles:



## Kinaxis RapidResponse allows companies to concurrently plan, monitor and respond on one platform, across business functions.

With a single data model and analytics engine, RapidResponse offers an array of supply chain applications all easily accessible through a common user interface. Using our single product, instead of individual disparate software solutions, our customers gain end-to-end supply visibility and the agility to respond quickly to changing conditions. The result is significant operating and cost efficiencies.

Deploy RapidResponse applications individually or together. Designed to be highly configurable, you can easily adapt our applications to meet your company's unique business needs without the heavy burden of ongoing custom coding.

## What's next on your supply chain journey?

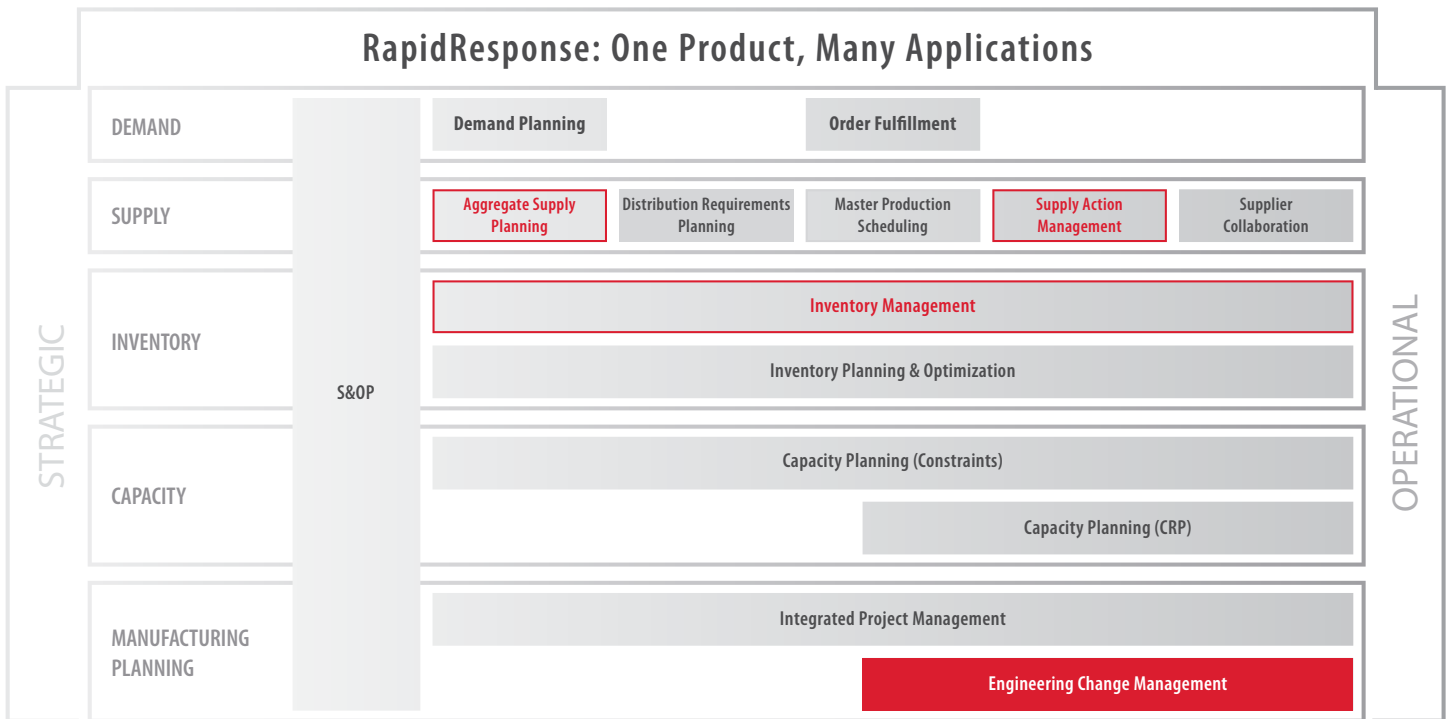
Choose the path that's right for your organization. With all our applications running on the single RapidResponse platform, you have the flexibility to deploy at your own pace. We'll help you mature your planning processes, wherever you happen to be in your supply chain journey. Achieve added benefits by using the Engineering Change Management application alongside one or more related applications to ensure synchronization across interrelated planning processes.

Organizations using the Engineering Change Management application also subscribe to Inventory Management, and can achieve even more value by using it with the Aggregate Supply Planning or Supply Action Management applications.

“RapidResponse helps our operations team easily and accurately identify buildable orders. We often use it to identify short-term shortages, project E&O, fulfill complex reporting needs and meet unique planning requirements that would require tremendous effort in a traditional ERP system.”

**IT Professional**

Large Enterprise Electronics Company



## Revolutionize your planning with Kinaxis RapidResponse

Offering the industry's only concurrent planning solution, Kinaxis is helping organizations around the world revolutionize their supply chain planning. Kinaxis RapidResponse, our cloud-based supply chain management software, connects your data, processes and people into a single harmonious environment. With a consolidated view of the entire supply chain, you can plan expected performance, monitor progress and respond to disconnects when reality hits. RapidResponse lets you know sooner and act faster, leading to reduced decision latency, and improved operational and financial performance. We can prove it. From implementation to expansion, we're here to help our customers with every step of their supply chain journey.



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