



## Capacity Planning (Constraints)

The Kinaxis® RapidResponse® Capacity Planning (Constraints) application lets capacity planners generate realistic supply plans that consider various types of capacity limitations.

Quickly and easily balance demand and supply to exceed your customers' expectation by managing constraints on a global level with the Capacity Planning (Constraints) application. You'll be able to identify and analyze possible constraint problems, simulate changes impacting resources, collaborate with others on constraint issues and align the management of constraints with your other business goals.

### Business outcomes

- ▶ Early identification and proactive management of over or under-utilized assets
- ▶ Quick and complete evaluation of cause and effects of constraints on operations
- ▶ Integration of capacity planning and constraint impact analysis with aggregate supply planning and master production scheduling processes to ensure plan feasibility

“ The connection of planning centres and people on a single platform with transparency in real-time is a great value add. It is a foundational platform that enables to break down silos and connect the supply chain and related functions end-to-end.

**Zoltan Pekar, Head of Supply Chain**  
Roland DG Corporation

# Application process components

The out-of-the box Capacity Planning (Constraints) application supports these process steps:

## 1 Create and maintain constraints; Assign source constraints

- Consider constraint availability and effectivity

## 2 Review overloaded/underloaded periods

## 3 Level load the constraint

- Simulate moving load to alternative constraints or by prebuilding in earlier periods where capacity is available

## 4 Adjust constraint properties

## 5 Adjust sourcing

- If necessary, determine whether a source constraint can be modified to use a different constraint or if a part can be sourced as a buy instead of a make



Capacity planning dashboard



Capacity constraints plan

	Constraint		Master Data	Rates			Part Sources	
	Name	Site		Count	Effective	Flagged	Count	Flagged
1	CA1001	P1001		2	Yes	2	6	
2	CA1002	P1002		2	Yes	2	12	
3	CA1003	E3001		2	Yes	2	3	
4	CS1001	E3002		2	Yes	2	3	
5	CS1003	E3001		7	No	7	2	2
6	CS1004	E3001		7	No	7	2	2
7	CT1001	E3002		2	Yes	2	9	

Data integrity alert

The interface displays a 'New Supply Plan' notification: 'Constraint CS1002 is impacting the new supply plan.' Below this, a 'SCENARIOS' section lists actions like 'Increase Demand', 'Increase Constraint', and 'Preplanning'. A 'PEOPLE' sidebar shows users like Sam Plant and Connie Strant. An 'ACTIVITY' feed shows a post from Sam Plant: 'Sam Plant As discussed, I have added 110 days preplanning to constraint CS1002. The overload issue has been solved.'

Adaptive collaboration

## Managing performance

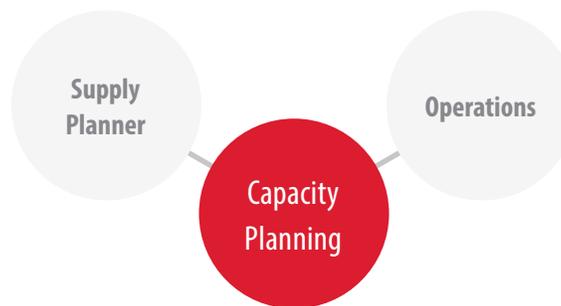
Standard measures include revenue, margin, inventory value, on-time delivery and constraint utilization as well as metrics associated specifically with capacity planning. This allows for focused analysis of the performance measures most applicable to the function at hand. Measures presented in the Capacity Planning (Constraints) dashboard include:

- ▶ **Constraint utilization:** Summary of the source constraint load by period and expressed as a percentage of the available load.
- ▶ **Overloads:** Summary of the number of constraints that are overloaded by period.
- ▶ **Supply plan volume:** Summary of the number of units in the supply plan by period as compared to the annual plan.
- ▶ **Underloads:** Summary of the number of constraints that are underloaded by period.

## Cross-functional collaboration

In the Capacity Planning (Constraints) application, collaboration occurs across these functional roles:

Creates the supply plan, collaborating with operations on key constraints



Provides input on rates by period and effective dates for all constraints and associates specific parts with constraints

## 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?

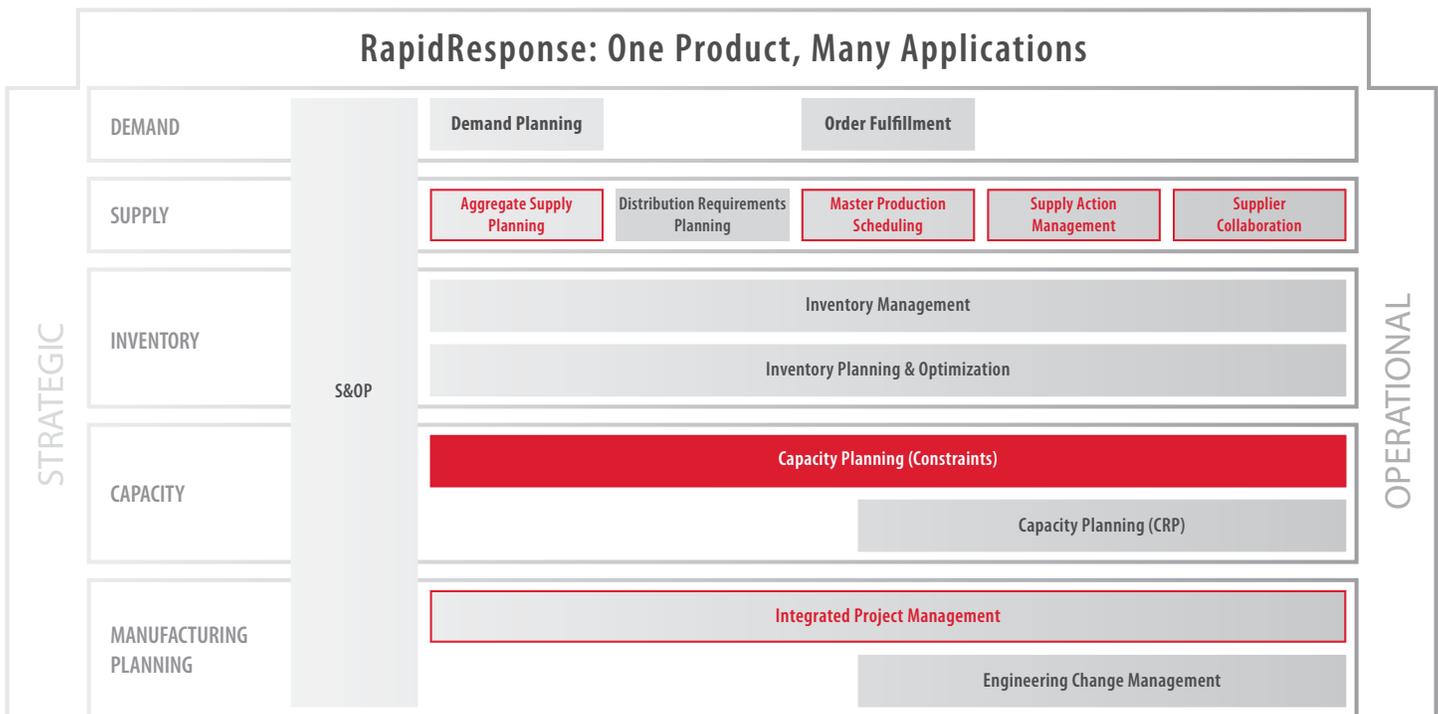
Choose the path that's right for your organization. With all our applications running on the single RapidResponse platform, you have the flexibility to deploy at your own pace. We'll help you mature your planning processes, wherever you happen to be in your supply chain journey. Achieve added benefits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

Organizations that use the Capacity Planning (Constraints) application will can achieve even more value by using it with the Aggregate Supply Planning, Master Production Scheduling, Supply Action Management, Supplier Collaboration or Integrated Project Management applications.

“ 94% of surveyed organizations used RapidResponse to improve planning cycles for their relevant supply chain function(s) with significant results or better.

**Source**

TechValidate survey of 123 users



## 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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