

MCTI OEMs FastMRP

September 12, 2003 8:40 AM (ET)

By Chuck Morris

Morris Consulting & Training, Inc. announces to ERP solution providers the availability of FastMRP services for inclusion in their solutions. Companies who include FastMRP functions and pass performance tests can become FastMRP certified solutions. If any existing ERP solution provider feels they are already fast, they can become FastMRP certified simply by passing the performance tests.

FastMRP solutions are built on lean and simple processes. When material requirements are calculated, actual customer demand is used, not forecast information. This generates true just-in-time pull signals to internal and external suppliers. The FastMRP calculation method uses the takt time of the assembly line instead of daily buckets to order material.

The FastMRP method also utilizes time based safety stock. This allows an assembler to specify in fractions of an hour (0.1, 0.2, 1.3, etc.) how much inventory they want to have stored locally. Using actual demand from sales orders, the FastMRP calculation orders enough material to last the specified time without any other deliveries. This time based safety stock can also be defined with effective dates. This is useful for setting a higher or lower safety level in the future, such as the winter months when transportation route times are less predictable.

To become FastMRP™ certified a solution must:

1. Calculate pull signals for internal and external deliveries
2. Calculate pull signals with a unique id, specified date, time and quantity
3. Use a planning period with a minimum of 1 hour
4. Consider at least 10 working periods per day
5. Support time based safety stock with 1/10th of an hour accuracy
6. Regenerate every bill of material to automatically include the effect of new engineering changes, schedule changes and order changes
7. Utilize a generic bill of material with at least 20,000 possible items
8. Utilize orders that explode to a minimum of 1,500 items
9. Support 1,200 orders per day

To become FastMRP certified a solution must exceed the following targets.

MCTI OEMs FastMRP

FastMRP Performance Target

Inputs	FastMRP Certified	Test System Results
Sales Orders per day	1,200	
Total Sales Orders in Production String	120,000	
Generic Bill of Material Size	20,000	
MRP Functions Performed		
Delete Existing Forecast Records	Step 0	
Explode Custom BOM for every Order	Step 1	
Adjust Demand to Linefeed	Step 2	
Calculate Recommended Inventory based on Float	Step 3	
Calculate New Requirements based on Order Multiples	Step 4	
Adjust Times based on Delivery Pattern	Step 5	
Results to be FastMRP Certified		
Number Forecast Records Created	500,000	
Time to generate MRP (sec)	1020	
Time to generate MRP (minutes)	17.0	
Number of Pull Signals per week	45,000	
Time to convert Pull Signals (seconds)	180	
Time to convert Pull Signals (minutes)	3.0	
Total MRP Run Time (Minutes)	20.0	

For further information or to schedule a performance test please contact ChuckMorris@FastMRP.com.