

New MRP

Take full advantage of your ERP system

New MRP is an “add-on” module for Microsoft Dynamics Ax designed with today’s ERP requirements in mind.

The module solves various challenges with the standard master planning functionality.

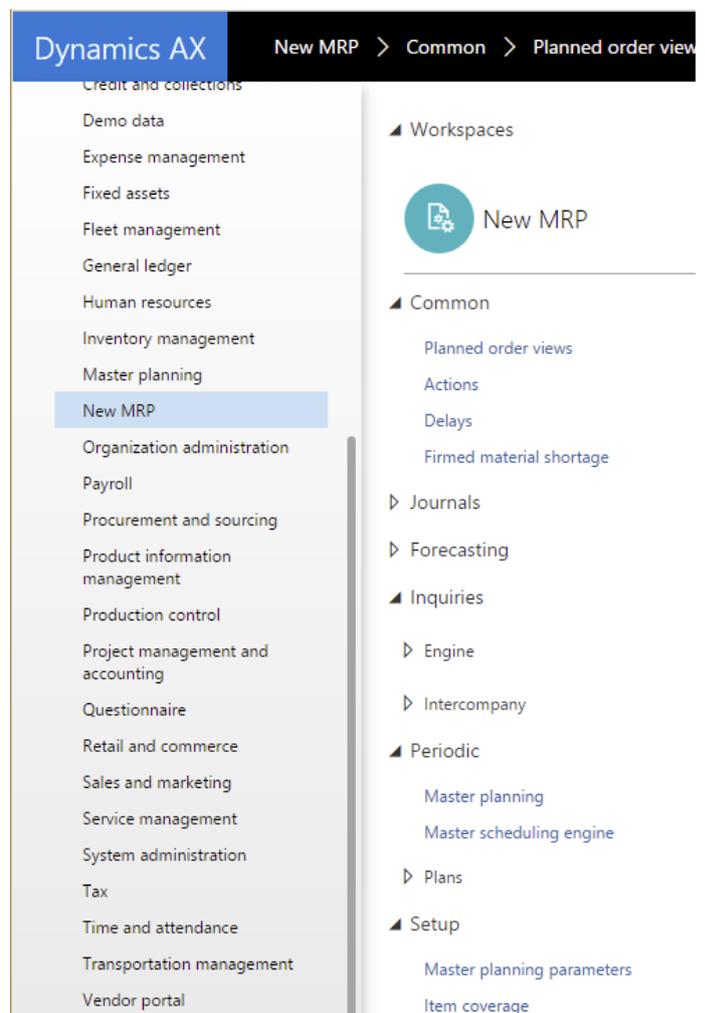
New MRP runs Real Time and responds automatically to new demands by adding and adjusting planned orders – no matter where demand pops up in the supply chain.

New MRP uses a bucket strategy that avoids hard linking of receipts and issues. This makes the result of the planning much better.

Do the smart thing and switch to use New MRP. The module does not overwrite or change anything in the existing installation.

Installation is therefore very easy and straightforward.

New MRP has a separate menu and work space similar to the Master planning module.



Company information

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Real Time MRP

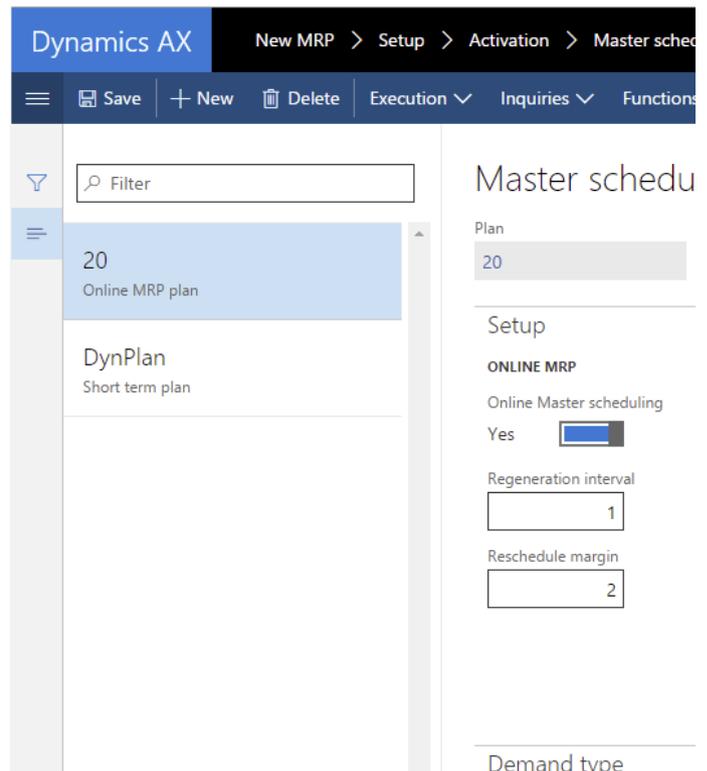
New MRP runs the MRP calculation continuously and automatically in the background whenever new demands appears in the supply chain.

This reduces the administrative time and thereby the delivery time to the customers.

Instead of waiting for the master scheduling to create new planned orders for purchasing, producing and transferring goods the next day, New MRP calculates the need for replenishment immediately.

This makes it possible to shorten the lead-time, because new demands are detected and managed earlier and faster with New MRP.

A Master plan can be marked for "Online Master scheduling" which means that new demands are detected and MRP calculated automatically in the background.



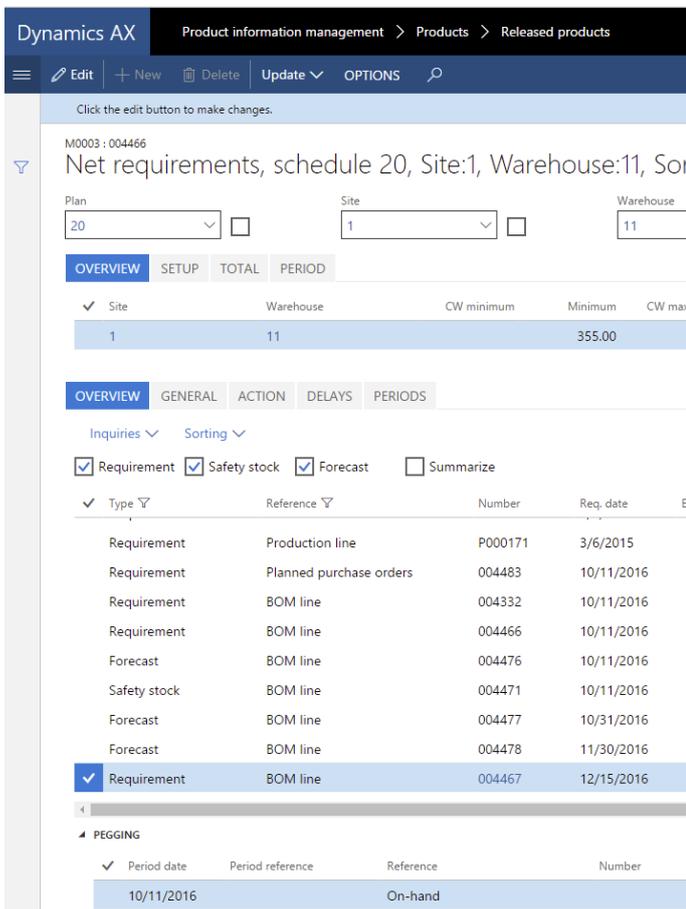
Prioritized demand handling

New MRP prioritizes demands across product levels and across companies in a very expedient manner, which improves the service level.

When receiving new orders, New MRP always calculates the real possible delivery dates on customer inquiries as New MRP automatically prioritizes demands coming from sales orders at any product level before fulfilling safety stock and forecast demands.

Hereby physical stock can be used as intended, namely for actively absorbing fluctuations in sales demand instead of being reserved for safety stock and forecast demands, resulting in possible delivery dates being calculated based on replenishment from scratch.

Requirements have a demand type that identifies the type of the originating demand. Demand types are maintained across companies, warehouses and BOM levels. The type is used to prioritize demands when running MRP.



CTP Intercompany planning

In a major global company, products are typically produced in only a few selected countries, but sold and stocked in a large number of countries.

Customer inquiries for possible delivery dates often involves multiple companies and it is therefore critical that intercompany planning can run directly across companies.

New MRP runs CTP calculations directly across companies upon order reception, making it possible to provide capable to promise dates when the order is created.

Further – the New MRP CTP runs extremely fast even when products needs to be produced over many BOM levels and companies, as New MRP uses the real-time-updated net requirements as foundation for the calculation.

Intercompany sourcing rules

New MRP also handles intercompany sourcing rules; for example, it examines if it is possible to fulfill requirements from stocks in other companies before creating new planned orders.

The same products are often available in various places inside the global company. Rules for transferring and moving items between companies and sites within the company can be specified.

Hereby multiple main warehouses can exist from where requirements can be met as sourcing rules can be established examining whether products are available at any company, site or warehouse before new products are ordered.

Intercompany handling and sourcing rules in New MRP brings visibility and improved planning to the supply chain.

The screenshot shows the Dynamics AX interface for 'Product information management > Products > Released products'. The main view is 'Explosion' for sales order 'D0001 : 000171'. A table lists the explosion details:

Reference	Number	Site	Warehouse	Req. date	Requirement...	Fut. date	Delayed
Sales order	000171	1	11	1/28/2013	-15.00	10/14/2016	Yes

Below the table, a tree view shows the explosion path: demf / MidRangeSpeaker / D0001 / DEMF000063 / Requirement / IC planned purchase orders. The tree includes several levels of requirements and purchase orders, such as / usmf / MidRangeSpeaker / D0001 / 004847 / Requirement / Planned production orders, and various on-hand and purchase order requirements for different items and sites.

At the bottom, there are tabs for RECEIPTS, GENERAL, PEGGING, RAW MATERIALS, ACTION, SALES ORDERS, and FORECAST. Below the tabs, a table header is visible with columns: Company, Level, Item number, Type, Reference, Number, and Req. date.

Sales orders are CTP calculated across companies during order reception. Possible delivery dates can hereby be calculated from sales companies no matter the complexity of the supply chain. In this example, a sales order is received in the German company.

The CTP calculation has immediately moved the demand to the US company where a planned production order have been created. The possible production date is hereby send back to the order recipient in the German company as a capable to promise date

New MRP background

“Why do we need New MRP when we have Old MRP?”

Companies sometimes experiences considerable challenges with their daily MRP. The challenges have turned out to be very difficult to overcome.

Examples are:

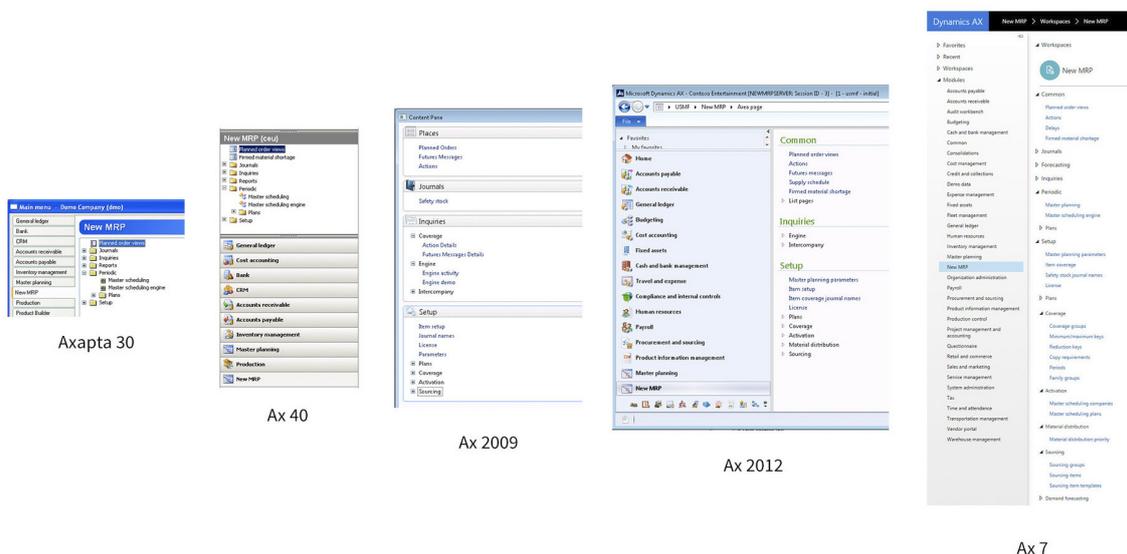
- Faulty planned orders that build up inventory.
- Missing stability as items are sometimes not calculated.
- Slow performance even when adding many helpers.
- Inadequate inter-company planning capabilities due to lack of possibility to run cross company CTP upon order reception.

Other companies struggle with the nightly MRP run that partly fails and leaves the planners and purchasers in a very difficult situation the next morning.

Supported Ax versions

It is possible to install New MRP on any version of Dynamics Ax.

New MRP does not change or modify the old master planning functionality and it is possible to run and use both Old and New MRP at the same time. This makes New MRP installation and deployment safe and without any risk in companies already running Old MRP.



About New MRP Solutions

New MRP Solutions is a software development company that possesses a unique knowledge and expertise around MRP and Supply Chain Management in Dynamics Ax.