



Smart Reservation

THE INTELLIGENT SOLUTION FOR ALLOCATION OF SALES ORDERS

With Smart Reservation optimal allocation of inventory on-hand is ensured and the delivery capability for sales orders is optimized to the best possible level. The solution can be implemented on top of all Microsoft Dynamics AX & D365 versions as a Plug & Play module

SMART RESERVATION

Smart Reservation is "smart" because it replaces the general reservation functionality with a much more intelligent allocation and reservation mechanism that does not blindly allocate the physical on-hand for the first coming sales orders regardless of their delivery dates. Smart reservation calculates the optimal allocation profile based on delivery dates, priorities, existing on-hand levels and coming receipts. This allocation profile is utilized by the "background reservation" to obtain physical reservations for the sales orders to which physical on-hand has been dedicated. This process is time-fence controlled, which means that physical reservations first kick in very close to the time where picking should be initiated. This methodology ensures an ultra-flexible system with maximum fulfillment of sales orders – it is simply the optimal allocation.

SMART RESERVATION - KEY FEATURES

Real-time delivery capability calculation (optimal ATP)
 Optimal fulfilment of as many sales orders as possible. While taking priorities, delivery dates, quantities, on-hand levels and coming receipts into account, the optimizer will calculate the ultimate optimal allocation profile.

TIME-FENCE CONTROLLED RESERVATION

Physical reservations are obtained by the background reservation component. The background reservation adopts and acts upon the optimal ATP profile so that only sales orders that according to the profile should allocate against physical on-hand are reserved.

VISUAL OVERVIEW FOR COMPLETE SALES ORDERS

The optimal ATP calculation is performed real-time for complete sales orders and the result is visualized using "traffic lights" so you can rapidly, through the traffic light colors, get an overview of the delivery capability for complete sales orders.

Smart reservation is illustrated with a traffic light function that makes it quick and easy for the sales department to get an overview of the supply situation.

Green light means that a sales order line can be delivered on time and that it is logically allocated against physical on-hand.

Yellow light means that a sales order line can be delivered on time, and that it is logically allocated against a coming receipts.

Red light means that a sales order line cannot be delivered on time. Simultaneously first possible delivery date is displayed.

COCKPIT FOR MANAGING ORDER LINES

A red order line always means a disappointed customer who cannot get his product delivered at the desired time, so any red order line must be handled to ensure maximum customer satisfaction. The well-featured traffic light allocation center provides an overview of delivery possibilities and provides tools to adjust delivery dates, or reprioritize so that no red order line / customer is left without attention.

Sales order Lines Header Open order

000835 : Orchid Shopping

Sales order header

Sales order lines

✓	T...	Gr...	Y...	R...	Item number	Product name	Quantity	Unit	Delivery type	Site	Ware...	Unit price	Net amount
		●		◆	E0074889	E007488	7.00	ea	Stock	1	11	34.00	238.00
			▲		E007123	E007123	3.00	ea	Stock	1	11	5,978.00	17,934.00
		●			E007987	E007987	1.00	ea	Stock	1	11	55.42	55.42
		●	▲		E004567	E004567	8.00	ea	Stock	1	11	55.81	446.48
✓		●	▲	◆	E007376	E007376	12.00	ea	Stock	1	11	2.57	30.84

Related information >

Traffic light allocation ^

- 5.00
- ▲ 5.00 6/21/2021
- ◆ 2.00 4/8/2022

Traffic light allocation - detail... v

REPLICATING OPTIMAL ATP

The optimal ATP profile is always calculated "on-request", for example when you open the sales order details, which ensure that the traffic light colors are always 100% accurate. It also means that the profile is always based on the current distribution of issue transactions, receipt transactions and on-hand levels in the data-base. In order to make the calculated result available for any third party stakeholders, for example in a web shop, the profile can be replicated into an availability table that can be populated directly to a web shop. In addition to express instant availability, the table also holds information around availability on future receipts in terms of availability dates and quantities. The replication table can be kept "real-time updated" so that the data are never more than, for example one minute old.

SMART RESERVATION VERSUS STANDARD DYNAMISC

In standard Dynamics reservations will always be based on a "first come, first served" basis. The first entered sales order will therefore always reserve against the physical stock, regardless of the delivery date.

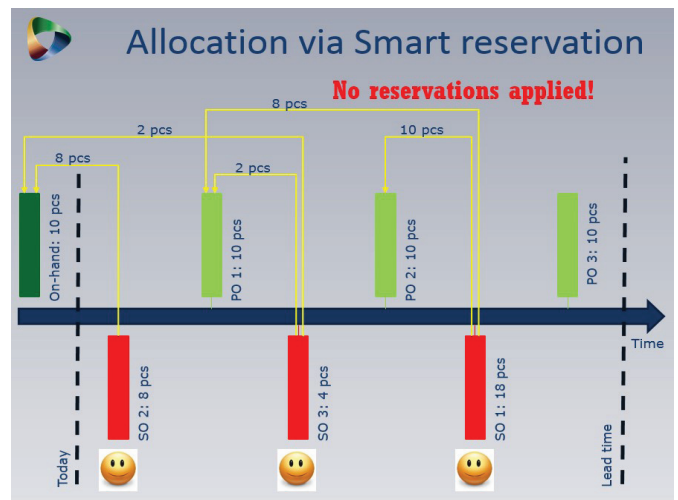
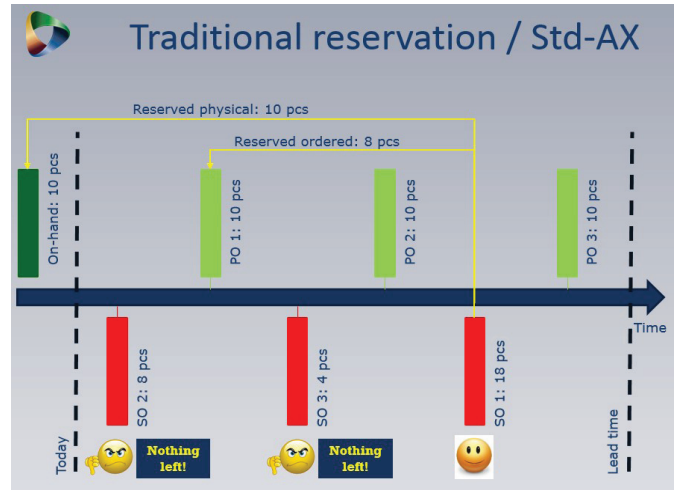
In the standard Dynamics scenario in upper right corner Order 1 will reserve all the existing on-hand levels as well as most of the delivery of Purchase 1. The result is that Order 2 and Order 3 cannot be delivered on time as Order 1 - despite later delivery date - has allocated all of the on-hand levels, which could have met these.

In the Allocation via Smart reservation scenario, all customers will be able to get their goods on time because Smart reservation is able to calculate the optimal allocation and with the support of the background reservation ensure that the correct sales orders are reserved against physical on-hand when the dispatch process is close to be initiated. Logistics department is therefore released from the ongoing tampering with reservations for satisfying customers.

DYNAMISC 365

Smart reservation for Dynamics 365 for Finance and Operations is available in a Standard and an Enterprise edition - Feature descriptions are available here: www.fsbdev.com/media/28859/smart-reservation-standard-and-enterprise-features.pdf

SMART RESERVATION is developed in collaboration with Dr. Martens, LaCrosse, Abena, Svendsens Sport and Rosendahl Design Group. Per Munk Nielsen (Logistics Director at Rosendahl) says: "I have as responsible for the logistics department for years spent a lot of time rearranging reservations to ensure that my customers receive their goods on time, these days are over after we got Smart Reservation. The solution has released a lot of resources in logistics and customer service departments".



FSB Development

FSB Development is a software company developing modules for Microsoft Dynamics.

The Smart reservation module for Microsoft Dynamics is an extension to standard logistics modules. Smart reservation is the right choice for companies looking for real-time advanced inventory management.

Smart reservation is available for version Microsoft Dynamics AX 4.0, 2009, 2012 and D365 for Finance and Operations.

FSB Development's Dynamics modules are sold via certified Dynamics partners in more than 30 countries. More than 200 Dynamics customers with over 20000 Dynamics users have chosen a solution from FSB Development.

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