

## 1.1 AX7 – Delivery alternatives

I have always liked the ATP check in AX since it was released in AX2009, even though it was simple, it gave a quick overview of whether the order line could be delivered or not. The main disadvantage of the ATP check was the “All or nothing” approach – if the customer requested 100 pcs, but only 99 was available – it would simply postpone the entire order line. AX2012 had the Supply overview, which could be used to investigate if the order could be fulfilled – but honestly, who has used that? Luckily, AX7 has a small enhancement to the sales orders called Delivery alternatives.

The example below will provide a simple case of how the delivery alternative functionality in AX7 can be used.

A sales order, is created for the customer Contoso Retail Seattle. The customer would like to receive the goods on May 18.

SALES ORDER DETAILS  
000799 : Contoso Retail Seattle

Lines Header | Open ord

Name: Contoso Retail Seattle

Delivery address: Contoso Retail Seattle

Address: 123 Silver Road, Seattle, WA 98104, USA

Requested ship date: 18-05-2016

Requested receipt date: 18-05-2016

Simulate delivery dates

Confirmed ship date: [ ]

Confirmed receipt date: [ ]

Customer reference: [ ]

Release status: Open

Customer requisition: [ ]

TRANSPORTATION

Routes: [ ]

DISCOUNTS

Total discount %: 0,00

Sales order lines

+ Add line + Add lines Add products Remove Sales order line Financials Inventory Product and supply Update line Warehouse

✓ T...	Variant number	Item number	Product name	Sales category	CW quantity	CW unit	Quantity	Unit	CA
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The order line is created for 1.100 Pcs of the item A0001. The ship date is automatically changed because of the Delivery date control in AX and postponed until June 2<sup>nd</sup> when the entire order line can be fulfilled from warehouse 21.

Save + New Delete SALES ORDER SELL MANAGE PICK AND PACK INVOICE RETAIL GENERAL WAREHOUSE TRANSPORTATION

NEW MAINTAIN PAYMENTS COPY VIEW FUNCTIONS ATTACHMENTS EMAIL NOTIFICATION

Service order Cancel Payments From all Totals Order credit Order credit Notes Email notification log

Purchase order Direct delivery From journal Order events Sales order recap Order holds

SALES ORDER DETAILS  
000799 : Contoso Retail Seattle

Lines Header | Open or

Address: 123 Silver Road, Seattle, WA 98104, USA

Simulate delivery dates

Confirmed ship date: [ ]

Confirmed receipt date: [ ]

DISCOUNTS

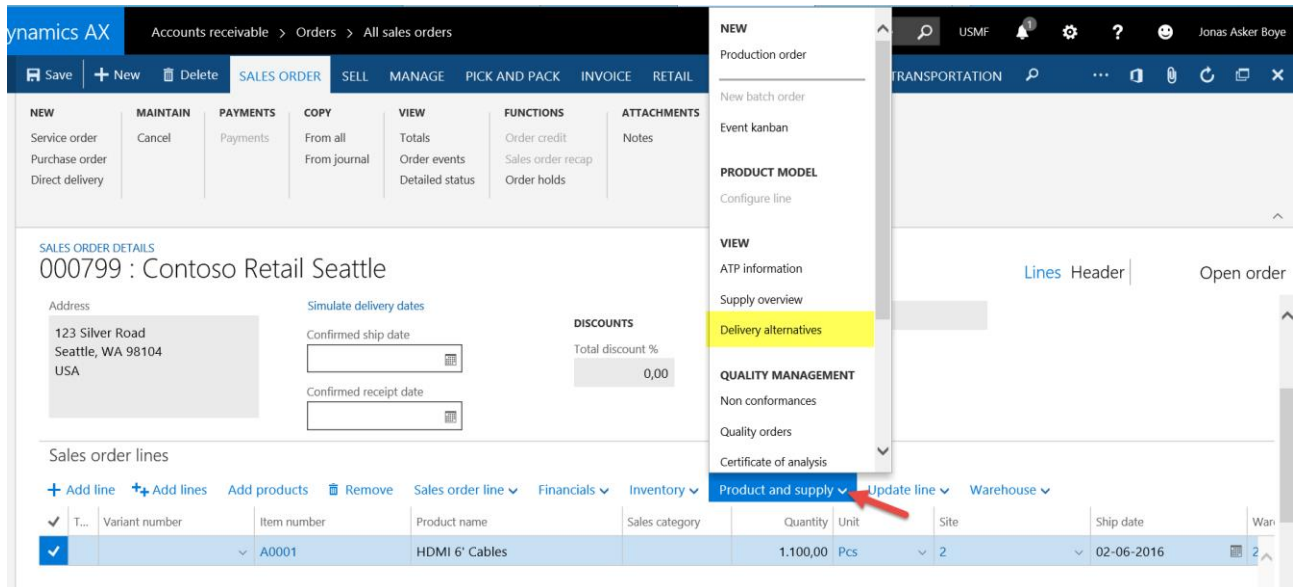
Total discount %: 0,00

Sales order lines

+ Add line + Add lines Add products Remove Sales order line Financials Inventory Product and supply Update line Warehouse

✓ T...	Variant number	Item number	Product name	Sales category	Quantity	Unit	Site	Ship date	W
✓		A0001	HDMI 6' Cables		1.100,00	Pcs	2	02-06-2016	2

By selecting Product and supply → Delivery alternatives, it will be possible to get a consolidated overview of whether the customers requested receipt date can be fulfilled anyhow.



When the delivery alternatives form opens it is possible to see that the customer can get the entire order delivered already on May 30<sup>th</sup>, by shipping the order from warehouse 63 instead of 21. Meaning the customer will be able to get it 3 days earlier even though there is a 5 day delivery time. It can also be seen that it is possible to reduce the delivery time to 1 day by changing the mode of delivery to Air. Therefore, by just one click it is immediately visible that the customer can get the order delivered in full 7 days earlier than calculated by the delivery date control.

### Delivery alternatives

Earliest delivery date suggestions

Refresh

Include partial quantity

1,100.00 Pcs

Transport days: 5  
25-05-2016

✓ Select to promise

Changed dimensions - Site : 6  
Warehouse - 63

Determine alternative ship date

AVAILABILITY PER

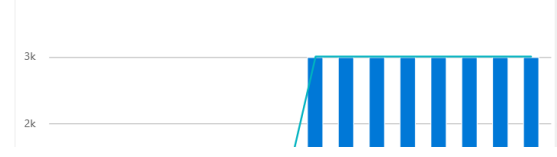
Select to promise

Site	Warehouse	Earliest ship date
2	21	02-06-2016
2	24	02-06-2016
2	25	02-06-2016
6	63	25-05-2016

AVAILABLE TODAY

Physical on-hand	Physical reserved	Available for reservation	Available to promise
1,000.00		1,000.00	1,000.00

FUTURE AVAILABILITY



Mode of delivery

Select to promise Show all delivery modes

Mode of deliv...	Description	Transport days
20	Air	1

It is furthermore possible to see if part of the order can be fulfilled partially by selecting the parameter illustrated below. In the example below there are two alternatives and by making a partial delivery of 1000 pcs and changing the mode of delivery to Air, it will be possible to fulfil almost the entire order within the customers requested receipt date.

### Delivery alternatives

Earliest delivery date suggestions

Refresh  Include partial quantity

**210,00 Pcs** 18-05-2016

Transport days: 1  
17-05-2016

Changed dimensions - Warehouse : 24

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**1.000,00 Pcs** 23-05-2016

Transport days: 5  
18-05-2016

Select to promise

Changed dimensions - Site : 6  
Warehouse : 63

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**1.100,00 Pcs** 30-05-2016

Transport days: 5  
25-05-2016

Changed dimensions - Site : 6  
Warehouse : 63

Determine alternative ship date

**AVAILABILITY PER**

Select to promise

Site	Warehouse	Earliest ship date
2	21	02-06-2016
2	24	02-06-2016
2	25	02-06-2016
6	63	25-05-2016

**AVAILABLE TODAY**

Physical on-hand	Physical reserved	Available for reservation	Available to promise
1.000,00		1.000,00	1.000,00

**FUTURE AVAILABILITY**

Mode of delivery

Select to promise Show all delivery modes

Mode of deliv...	Description	Transport days
20	Air	1

The difference between the original calculated values and the promised values, can be seen after selecting the alternative warehouse and mode of delivery.

### Delivery alternatives

#### Sales order line

Item number: A0001

Product name: HDMI 6' Cables

Quantity: 1.100,00 Unit: Pcs

#### EARLIEST DELIVERY DATE

	CALCULATED	PROMISE
SALES QUANTITY	1.100,00	1.000,00
RECEIPT DATE	03-06-2016	18-05-2016
MODE OF DELIVERY	Truck	Air
TRANSPORT DAYS	1	1
SHIP DATE	02-06-2016	17-05-2016
SITE	2	6
WAREHOUSE	21	63

#### Earliest delivery date suggestions

Refresh  Include partial quantity

**210,00 Pcs** 18-05-2016

Transport days: 1  
17-05-2016

Changed dimensions - Warehouse : 24

---

**1.000,00 Pcs** 23-05-2016

Transport days: 5  
18-05-2016

Select to promise

Changed dimensions - Site : 6  
Warehouse : 63

---

**1.100,00 Pcs** 30-05-2016

Transport days: 5  
25-05-2016

Changed dimensions - Site : 6  
Warehouse : 63

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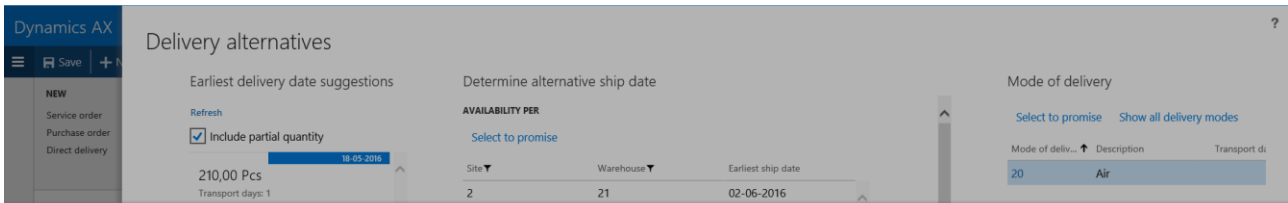
6

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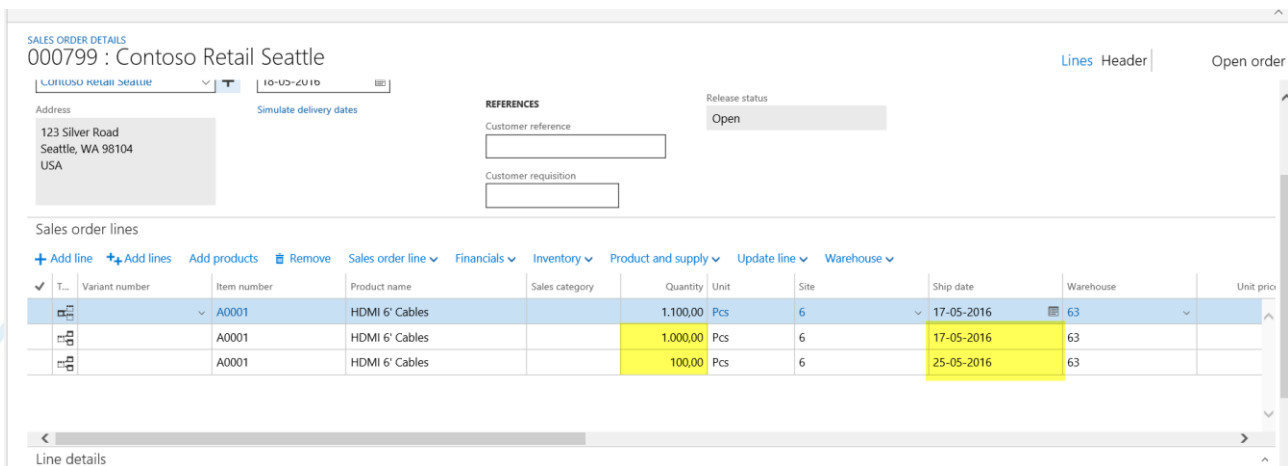
After clicking OK to the delivery alternative, AX will prompt if a Delivery schedule should be created, because of the selected partial delivery.



The selected quantity is less than the initial quantity and the storage dimensions have changed. A delivery schedule will be created. Would you like to also update the commercial line to match the schedule lines and affect the pricing?



The system will then automatically create the delivery schedule for the new warehouse, where the 1000 pcs will be shipped out immediately and the remaining 100 pcs will get a ship date according to the ATP calculation.



The delivery alternatives is a simple, but real strong tool that can provide an order handler/sales taker a quick overview of a quicker and better way of fulfilling the customer needs.

I have not found the parameter yet, but a nice enhancement would be to be able have the option of having the delivery alternatives form automatically open if an order line cannot be fulfilled.