

ATP-CTP

Calculation of Order Promising Dates

MS Dynamics 365 Business Central

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ATP-CTP (CZ verze vysvětlení)

- V Dynamics 365 Business Central se používají dvě hlavní metody pro slibování termínů dodání: **ATP** (Available to Promise) a **CTP** (Capable-to-Promise).
- 1. **ATP** (Available-to-Promise): Tato metoda vypočítává dostupnost na základě aktuálních zásob a plánovaných příjmů. [Pokud máte dostatek zásob na skladě nebo jsou na cestě, ATP vám poskytne datum, kdy můžete objednávku splnit¹.](#)
- 2. **CTP** (Capable-to-Promise): Tato metoda jde o krok dále a zahrnuje nejen dostupné zásoby, ale také výrobní kapacity a dodací lhůty od dodavatelů. [CTP vypočítává, kdy můžete objednávku splnit, i když musíte nejprve vyrobit nebo objednat potřebné zboží¹.](#)
- Obě metody pomáhají zlepšit přesnost a spolehlivost vašich dodacích termínů, což vede k lepší spokojenosti zákazníků.

ATP-CTP (Eng version)

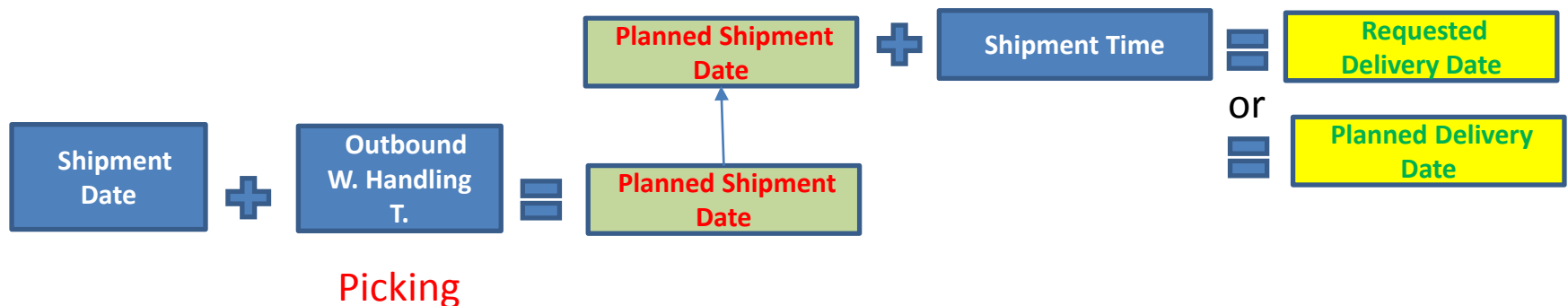
- In Dynamics 365 Business Central, there are two main methods for promising delivery dates: ATP (Available-to-Promise) and CTP (Capable-to-Promise).
- **ATP (Available-to-Promise):** This method calculates availability based on current inventory and projected revenue. If you have enough inventory in stock or on the way, ATP will give you a date when you can fulfill order 1.
- This method goes one step further and includes not only available inventory **CTP (Capable-to-Promise):** but also production capacity and lead times from suppliers. CTP calculates when you can fulfill the order, even if you have to produce or order the item first.
- **Both methods help improve the accuracy and reliability of your delivery times, leading to better customer satisfaction.**

Calculations ATP-CTP

- **When Business Central calculates the customer's delivery date, it performs two tasks:**
- **Calculates the Earliest Delivery date** when the customer **has not requested** a specific **Delivery date**.
- Verifies if the **delivery date requested** by the customer or **promised** to the customer is realistic.

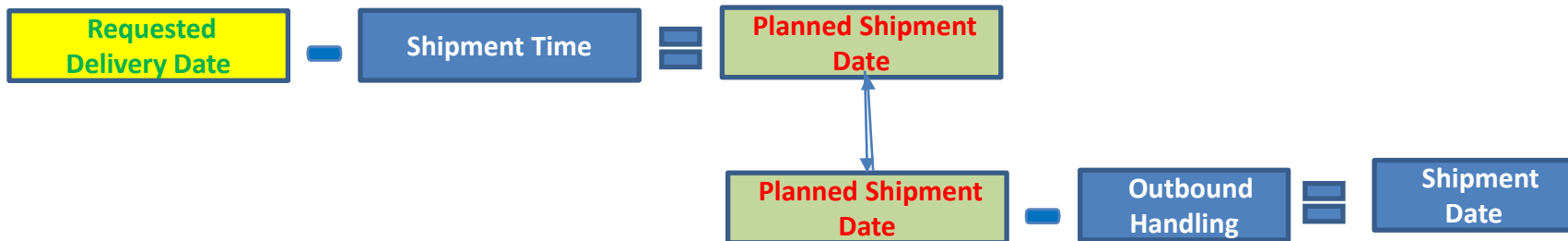
Introduction I.

- A company must be able to inform their customers of **Order Delivery dates**.
- The **Order Promising Lines** page enables you to do this directly from a sales order.
- Business Central calculates shipment (earlier) and delivery (later) dates based on an item's known and expected **availability dates**, which you can promise to customers.
- If you specify a **Requested delivery** date on a sales order line, then that date is used as the Starting point for the following calculations:
 1. **Requested Delivery Date** – **Shipping Time** = **Planned Shipment Date**
 2. **Planned Shipment Date** - Outbound Warehouse Handling Time = **Shipment Date**

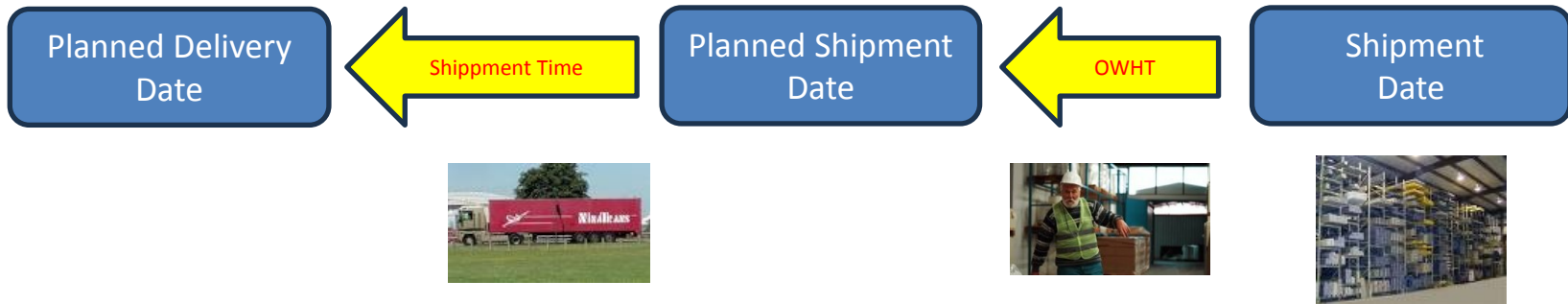


Introduction II.

- 1. Requested Delivery Date – Shipping Time = Planned Shipment Date
- 2. Planned Shipment Date - Outbound Warehouse Handling Time = Shipment Date



Nebo to může být znázorněno takto



ATP-CTP

- **Available-to-Promise**
- **Capable-to-Promise**
- **ATP** – based on the **reservation functionality** of the system, which checks availabilities (**Calculation of Delivery date**)
- **CTP** – based on **WHAT-IF** scenarios. That is, calculating the earliest time when the requested item will be available. It calculates replenishment.

If there are no existing any **Item Ledger entries**, no incoming orders of the type Purchase, Transfer, Return or Production - then the system calculates the nearest date, creates order lines and **reserves** stock items.

ATP-CTP

- Select **Available-to-Promise** if you want to calculate the **Earliest date** that the item will be available with respect to inventory, scheduled receipts, and **Gross Requirements**.
- Select **Capable-to-Promise** if you know that the item is presently out of stock and you want to calculate the **earliest date** that the item can be available by issuing new replenishment requisitions.
- Before an item can be included in the **Order Promising calculation**, it must be marked as **Critical**.
- This setup ensures that non-critical items do not cause irrelevant order promising calculations.

Gross Requirements-explanation

- **Gross Requirements:**
- Gross requirements represent the total quantity of a product that is needed to satisfy the demand forecast. This includes both the demand from external customers and the demand generated by the production plan for other products within the organization.
- In simple terms, gross requirements are the total demand for a particular item before considering any existing inventory.

Gross Requirement=Hrubý požadavek

Net Requirements-explanation

- Net requirements, on the other hand, take into account the current inventory levels and the scheduled receipts (orders or production) that are already in the pipeline.
- Net requirements are calculated by subtracting the current on-hand inventory and scheduled receipts from the gross requirements. This calculation helps determine the actual quantity that needs to be produced or procured to meet the demand.

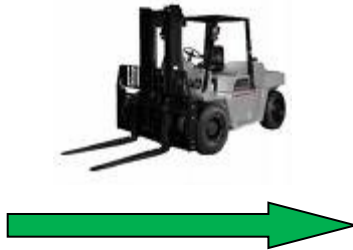
Net Requirement=Čistý požadavek

Important equation (relation between GR and NR)

Net Requirements = Gross Requirements - (On-Hand Inventory + Scheduled Receipts - Schedule Deliveries - Safety Stock)

ATP - CTP

Blues Location



1D - OWHT



Shipment time



Customer

Blue Location card tab Warehouse

Default Bin Selection	<input type="text"/>
Outbound Whse. Handling Time	<input type="text" value="1D"/>
Inbound Whse. Handling Time	<input type="text" value="3D"/>

Customer Card

Shipment Method	
Code	<input type="text" value="EXW"/>
Agent	<input type="text" value="FEDEX"/>
Agent Service	<input type="text" value="SPECIAL"/>
Shipping Time	<input type="text" value="3D"/>

ATP –CTP – Order Promising Setup

Order Promising Setup

General

Offset (Time)	<input type="text" value="1D"/>	Order Promising Tem...	<input type="text" value="PLANNING"/>
Order Promising Nos. ...	<input type="text" value="O-PROM"/>	Order Promising Wor...	<input type="text" value="DEFAULT"/>

The Offset Time Delay -> Compensation (Time) field contains the amount of time the program **must wait** before it can issue a new purchase order, production order or transfer order. It was already mentioned in the section describing reservations.

The period begins on the current date

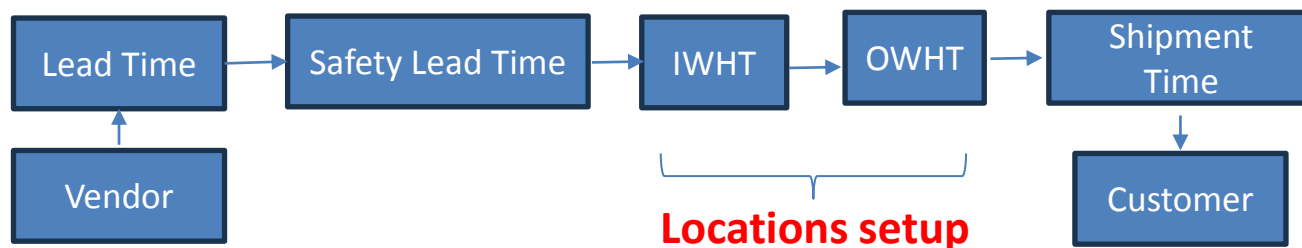
Used Time units can be days, working days, weeks, months, quarters or years

Parameters used for ATP-CTP calculations

Times ATP-CTP	Number of days	Where it's set
OWHT	1D	Location Blue
IWHT	1D	Location Blue
Lead Time Calculation	4D	Item Card
Safety Lead Time	2D	Item Card
Shipping Time	3D	Customer Cards
Offset	1D	Order Promising Setup

OWHT=Outbound Warehouse Handling Time

IWHT=Inbound Warehouse Handling Time



Lead time calculations Setups

Vendor Card | Work Date: 01.11.2027

10000 · London Postmaster

[Home](#) Request Approval New Document Vendor Prices & Discounts Report | More

Contact Merge With... Apply Template Send Email Pay Vendor

Payments

Prepayment %

Application Method

Payment Terms Code

Payment Method Code

Priority

Block Payment Tolerance

Receiving

Location Code

Shipment Method Code

Lead Time Calculation

Item Card | Work Date: 01.11.2027

1936-S · BERLIN Guest Chair, yellow

[Home](#) Request Approval Item Prices & Discounts | Actions ▾ Related ▾ Fewer options

Copy Item Adjust Inventory Create Stockkeeping Unit Apply Template

Unit Price Excl. VAT 125,10

Price Includes VAT

Price/Profit Calculation

Profit % 35,70

Replenishment

Replenishment System

Lead Time Calculation

Purchase

Vendor No. 20000

Lead time calculations-explanation-CZ version

V Business Central hodnota pole **Lead Time Calculation** na kartě dodavatele a na kartě zboží ovlivňuje, kdy je třeba objednat zboží, **aby bylo doručeno včas**.

1. Lead Time Calculation na kartě dodavatele: Tato hodnota určuje dobu, kterou dodavatel potřebuje k dodání zboží od okamžiku objednání. [Pokud je tato hodnota nastavena, Business Central ji použije k výpočtu data objednávky na základě požadovaného data doručení¹](#).

2. Lead Time Calculation na kartě zboží: Tato hodnota určuje dobu, kterou potřebujete k přípravě zboží na skladě, včetně času na zpracování a manipulaci. [Pokud je tato hodnota nastavena, Business Central ji použije k výpočtu data, kdy bude zboží dostupné k vyzvednutí¹](#).

Při zadávání objednávky Business Central kombinuje tyto hodnoty, aby vypočítal optimální datum objednávky a očekávané datum doručení. [Pokud například zadáte požadované datum doručení, systém automaticky vypočítá datum objednávky odečtením celkové doby dodání \(dodavatel + zboží\) od požadovaného data¹](#).

Požadované datum doručení na kartě Dodavate ->Requested Delivery date
(nebude uvažováno v našem jednoduchém modelu)

Náš model bude brát do úvahy LS and SLT **POUZE** na kartě zboží (viz vyjádření na snímku 18)

Lead time calculations-explanation-ENG version

In Business Central, the value of the Lead Time Calculation field on the Supplier tab and the Item tab affects when you need to order goods to be delivered on time.

Lead Time Calculation on the Supplier card: This value determines the amount of time it takes the supplier to deliver the item from the time of ordering. If this value is set, Business Central uses it to calculate the order date based on the requested delivery date.

Lead Time Calculation on the Item Cards. If this value is set, Business Central will use it to calculate the date the item will be available for pick-up.

When you place an order, Business Central combines these values to calculate the optimal order date and expected delivery date. For example, if you enter a desired delivery date, the system automatically calculates the order date by subtracting the total delivery time (supplier + item) from the desired date.

Statement

**in our model we will use
only the Lead time calculation and the item card**

Simple model (ATP Calculation) I.

First of all, it is also necessary to create a new item card with the parameters that will be part of the calculation, set the parameters of the model location and the customer to whom we will deliver our model item.

Working day will be set in this PWP presentation to 3.7.2023 (2023/07/03)

Due to the type of license in our BC instances allowing to work realistically only from 1.11. to 28.2. of that year, we set today our Working date to 3.11.2027 for real modeling of ATP-CTP.

Item	
No.	JB_011
Description	* Hydraulic Unit IBM 370
Blocked	<input type="checkbox"/>
Type	Inventory
Base Unit of Measure	PCS
Last Date Modified	2023/06/09
GTIN	



Simple model (ATP Calculation) II.

Costs & Posting	
Cost Details	
Costing Method	FIFO
Standard Cost	0.00
Unit Cost	0.00
Indirect Cost %	0
Last Direct Cost	800.00
Net Invoiced Qty.	0
Cost is Adjusted	<input type="checkbox"/>
Cost is Posted to G/L	<input type="checkbox"/>
Purchase Prices & Discounts	Create New...

Replenishment	
Replenishment System	Purchase
Lead Time Calculation	4D
Purchase	
Vendor No.	10000
Vendor Item No.	
Purch. Unit of Measure	PCS
Purchasing Blocked	<input type="checkbox"/>

Planning	
Reordering Policy	Lot-for-Lot
Reserve	Optional
Order Tracking Policy	None
Stockkeeping Unit Exists	No
Dampener Period	
Dampener Quantity	
Critical	<input type="checkbox"/>
Safety Lead Time	2D
Safety Stock Quantity	
Lot-for-Lot Parameters	
Include Inventory	<input checked="" type="checkbox"/>
Lot Accumulation Period	1D
Rescheduling Period	



Simple model (ATP Calculation) III.

Shipping		Customer 1000	
Ship-to Code	<input type="text"/>	Shipment Method	
Location Code	BLUE	Code	EXW
Combine Shipments	<input checked="" type="checkbox"/>	Agent	FEDEX
Reserve	Optional	Agent Service	SPECIAL
Shipping Advice	Partial	Shipping Time	3D
		Base Calendar Code	
		Customized Calendar	No

BLUE · Blue Warehouse			
Online Map Resource Locations Zones Bins Inventory Posting Setup Warehouse Employees Dimensions More options			
Require Receive	<input type="checkbox"/>	Default Bin Selection	
Require Shipment	<input type="checkbox"/>	Outbound Whse. Handling Time	1D
Require Put-away	<input type="checkbox"/>	Inbound Whse. Handling Time	1D
Use Put-away Worksheet	<input type="checkbox"/>	Base Calendar Code	
Require Pick	<input type="checkbox"/>	Customized Calendar	No
Bin Mandatory	<input type="checkbox"/>	Use Cross-Docking	<input type="checkbox"/>
Directed Put-away and Pick	<input type="checkbox"/>	Cross-Dock Due Date Calc.	

Purchase of item JB_011 by use of Item Journal

Batch Name DEFAULT											
Manage Process Posting Line More options											
Posting Date	Entry Type	Price Calculation Method	Document No.	Item No.	Description	Location Code	Bin Code	Quantity	Unit of Measure Code	Unit Amount	Amount
2023/12/01	Purchase	Lowest Price	T00067	JB_011	Hydraulic Unit IBM 370	BLUE		71	PCS	800.00	56 800.00



Do you want to post the journal lines?



Important Quantity
(will be used later)

Item Ledger Entries Search Process Entry Automate v Fewer options														
Posting Date	Entry Type	Document Type	Document No.	Item No.	Cost Amount (Expected)	Cost Amount (Actual) (ACY)	Description	Serial No.	Lot No.	Expiration Date	Department Code	Project Code	Location Code	Quantity
2023/12/01	Purchase		T00067	JB_011	0.00	0.00		-	-				BLUE	71

At this moment we have a total of 71 pieces of our items in stock in location Blue

Items by Locations & Availability

JB_011 · Hydraulic Unit IBM 370

Process Request Approval Item Prices & Discounts | Actions ▾ Related ▾ Automate ▾ Fewer options

Attachments Statistics Approvals Comments Phys. Inventory Ledger Entries Dimensions **Item Availability by ▾** Attributes Structure **Items by Location**

← Work Date: 2023/12/01

Items by Location

◀ Previous Set ▶ Next Set | More options

Options

Show Items in Transit

Show Column Name

Items by Location Matrix		Manage	Item	Fewer options
No. ↑	Description	UNSPECIFIED	BLUE	
→ JB_011	Hydraulic Unit IBM 370	–	71	
JOBURG_10...	Roller Skates	8	10	
JOBURG_C...	Chair	–	–	

Items by Locations & Availability by period

JB_011 · Hydraulic Unit IBM 370

Process Request Approval Item Prices & Discounts | Actions ▾ Related ▾ Automate ▾ Fewer options

Attachments Statistics Approvals Comments Phys. Inventory Ledger Entries Dimensions **Item Availability by ▾** Attributes Structure **Items by Location**

JB_011 · Hydraulic Unit IBM 370

Related ▾ Automate ▾

Options

View by View as

Lines		Gross Requirement	Scheduled Receipt	Planned Order Receipt	Projected Available Balance
2023/06/19	25	0	0	0	71
2023/06/26	26	0	0	0	71
→ 2023/07/03	27	0	0	0	71
2023/07/10	28	0	0	0	71
2023/07/17	29	0	0	0	71
2023/07/24	30	0	0	0	71

Sales Order (our Customer must have set **Shipping time to 3D**)

Only Sales Order Line presented in this PWP presentation !

We have already purchased **71** items by use of Item Journal and we require only **50** pcs – see a quantity field in Sales Order line.

Lead Time nor **Safety Lead Time** will be not used in this part of the model.

In this example, we do not consider manually entered **Requested Delivery Dates** (if visible) into the **Sales line** (each line may have a separate **Requested Delivery Date**).

If we enter this date in the sales order header, where the field also exists, this value is automatically transferred to all lines. In our example we will not consider this.

1st part of the Sales Line

Type	Catalog	No.	Drop Ship...	Item Reference No.	Assembly Order No.	Description	Special Order	Location Code	Requested Delivery Date	Promised Delivery Date	Line Discount Amount	Quantity
→ Item		JB_011	<input type="checkbox"/>			Hydraulic Unit IBM 370	<input type="checkbox"/>	BLUE			0,00	50

See comment

2nd part of the Sales Line

Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date	Department Code	Project Code	Customergro... Code	Area Code
0	-	2023/07/07	2023/07/04	2023/07/03	SALES		MEDIUM	30

3D=Shipping time
1D=OWHT

Sales Order (our Customer must have set **Shipping time to 3D**)

2nd part of the Sales Line

Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date	Department Code	Project Code	Customergro... Code	Area Code
0	-	2023/07/07	2023/07/04	2023/07/03	SALES		MEDIUM	30

3D=Shipping time

1D=OWHT

Explanation of dates

Shipping and Billing			
Ship-to	Default (Sell-to Address) ▾	Location Code	BLUE
Contact	Mr. Andy Teal	Shipment Date	2023/07/03
Shipment Method		Shipping Advice	Partial
Code	EXW ▾	Outbound Whse. Handling Time	1D
Agent	FEDEX ▾	Shipping Time	3D
Agent Service	SPECIAL ▾	Late Order Shipping	Yes
Package Tracking No.		Combine Shipments	<input checked="" type="checkbox"/>
Bill-to	Default (Customer) ▾	Completely Shipped	No

Sales Order : Order Promising function

Sales Order | Work Date: 2023/07/03

1452 · The Cannon Group PLC

Process Posting Release Prepare Print/Send Request Approval Order **Actions** Related Automate Fewer options

Dimensions Statistics Comments Attachments Approv Service Customer Shipments

Functions

Plan **Order Promising**

Request Approval Demand Overview

Posting Planning

Other

Customer No. 10000

Customer Name The Cannon Group PLC

Sell-to

Address 192 Market Square

Address 2

What's left in stock (71-50=21)

Edit - Order Promising Lines - Sales Order

No. 1452

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailability Quantity
JB_011	Hydraulic Unit IBM 370		2023/07/03		2023/07/03		50	50	21	2023/10/01	0

Before ATP activation and ATP proposal approval



ATP Calculation

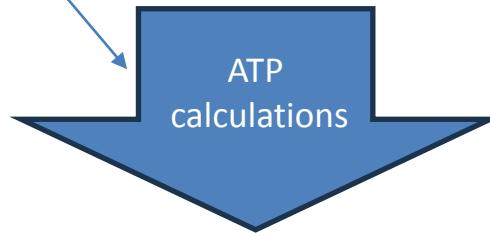
Edit - Order Promising Lines - Sales Order

No. 1452

Manage Accept Available-to-Promise Capable-to-Promise

Before use of ATP

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailable Quantity
→ JB_011	Hydraulic Unit IBM 370		2023/07/03		2023/07/03		50	50	21	2023/10/01	0



Edit - Order Promising Lines - Sales Order

No. 1452

Manage Accept Available-to-Promise Capable-to-Promise

Suggestion

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date
→ JB_011	Hydraulic Unit IBM 370		2023/07/03	2023/07/07	2023/07/03	2023/07/03	50	50	21	2023/10/01

ATP Calculation

After accepting the calculation, it was **not reflected in the sales line.**

Edit - Order Promising Lines - Sales Order

No. 1452

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity
→ JB_011	Hydraulic Unit IBM 370		2023/07/03	2023/07/07	2023/07/03	2023/07/03	50

Manual modification of the required quantity in the sales order line 50->100

Type	Catalog	No.	Drop Ship...	Item Reference No.	Assembly Order No.	Description	Special Order	Location Code	Requested Delivery Date	Promised Delivery Date	Line Discount Amount	Quantity
Item		JB_011	<input type="checkbox"/>			Hydraulic Unit IBM 370	<input type="checkbox"/>	BLUE			0,00	100

Reason for change Quantity per 100 pcs-> Purchase and related parameters such as Lead Time Calculation (in our Setup =4D) and IWHT (1D)

CTP Calculation

We use CTP because ATP has already been used and more, we need to plan the replenishment of the stock with 29 pcs

Edit - Order Promising Lines - Sales Order

No. 1452

Manage Accept Available-to-Promise Capable-to-Promise

We're 29 units short

$100 = 71 + 29$

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date
JB_011	Hydraulic Unit IBM 370		2023/07/03		2023/07/03		100	100	-29	2023/10/01

Shipping time +OWHT=3D+1D

Manage Accept Available-to-Promise Capable-to-Promise

It will be necessary to accept

12 days=4D+8D

8 days

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability
JB_011	Hydraulic Unit IBM 370		2023/07/03	2023/07/15	2023/07/03	2023/07/11	100	100	0

Purchase process (after the CTP calculation)

July 3 -> July 11 = 8D = 4D (Lead Time) + 2D (Safety Lead Time) + 1D (IWHT at Location Blue) + 1D Offset

Specifies the period of time to wait before issuing a new purchase order, production order, or transfer order.

Part of Sales Line : CTP calculation Accepted calculation

Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
100		0	0	-	2023/07/15	2023/07/12	2023/07/11



Sales process

15.7.-11.7. = **4D** = **3D** (Shipment Time)+ 1D (OWHT from Location Blue)



New example In classes


A realistic model in classroom teaching

Zdroj	Specifikace	Hodnota	
Lokace Blue	IWHT	1D	
Lokace Blue	OWHT	1D	
Item Card	Lead Time	4D	
Item Card	Safety Lead Time	2D	
Customer	Shipping Time	3D	
OP Setup	Offset time	1D	

CTP do finálního výpočtu zahrnuje soboty a neděle!

User role settings

My Settings - JSKORKOVSKY  

Role	Sales Order Processor	...
Company	CRONUS International Ltd.	...
Work Date	01.11.2027	
Region	Czech (Czechia)	...
Language	English (United States)	...
Time Zone	(UTC+01:00) Amsterdam, Berlin, Bern, Ro...	...
Notifications	Change when I receive notifications.	
Teaching Tips	<input type="checkbox"/>	

Security

Your last sign in was on 13.11.24 11:02.

Setup LT and SLT

Replenishment	
Replenishment System	Purchase
Lead Time Calculation	4D
Purchase	
Vendor No.	
Vendor Item No.	
Purch. Unit of Measure	PCS
Purchasing Blocked	<input type="checkbox"/>

Planning	
Reordering Policy	Fixed Reorder Qty.
Reserve	Optional
Order Tracking Policy	None
Stockkeeping Unit Exists	No
Dampener Period	
Dampener Quantity	
Critical	<input type="checkbox"/>
Safety Lead Time	2D
Safety Stock Quantity	

Purchase item „kosa ocelová luční“

We used Item journal ->71 pcs to location BLUE

Items by Location

◀ Previous Set ▶ Next Set

Options

Show Items in Transit Column Set

Show Column Name

Items by Location Matrix | [Manage](#) Item

➤ New Line ✕ Delete Line

No. ↑	Description	UNSPECIFIED	ADV	BAS	BI	BILLA_01	BLUE
→ P_043	Kosa ocelová luční	-	-	-	-	-	71

Setup Shipping time (new customer) and Order Promising Setup

Shipping		Shipment Method	
Ship-to Code	<input type="text"/>	Code	<input type="text"/>
Location Code	BLUE	Agent	FEDEX
Combine Shipments	<input checked="" type="checkbox"/>	Agent Service	TEST ATP
Reserve	Optional	Shipping Time	3D
Shipping Advice	Partial	Base Calendar Code	<input type="text"/>

Order Promising Setup

General

Offset (Time)	1D
Order Promising Nos.	O-PROM

Sales order (line only)

Lines <u>Manage</u> Line Order										
New Line Delete Line Select items...										
Type	No.	Item Refere... No.	Cat...	Drop Ship...	Description	Purchasing Code	Location Code	Quantity	Line Discount Amount	Qty. to Assemble to Order
→ Item	:	P_043	<input type="checkbox"/>	<input type="checkbox"/>	Kosa ocelová luční		BLUE	100	0,00	

1st part

Lines <u>Manage</u> Line Order									
New Line Delete Line Select items...									
Type	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date	Requested Delivery Date	
→ Item	:	0	0	-	05.11.2027	02.11.2027	01.11.2027		

2nd part



Action- Plan-Order Promising-CTP

Edit - Order Promising Lines - Sales Order

No. 1210

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailable Quantity
→ P_043	Kosa ocelová luční		01.11.2027		01.11.2027		100	29	-29	30.01.2028	29

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailable Quantity
→ P_043	Kosa ocelová luční		01.11.2027	15.11.2027	01.11.2027	11.11.2027	100	29	0	30.01.2028	29

15.11. <-> 11.11 -> 4 Days = Shipping Time +OWHT=3D+1D

11.11.<-> 1.11.-> 10 Days = LT+SLT+IWHT+Offset+2 days (Suterday- Sunday)=
= 4D +2D +1D+1D+2D (weekend)

Action- Plan-Order Promising-CTP

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailable Quantity
→ P_043	⋮ Kosa ocelová luční		01.11.2027	15.11.2027	01.11.2027	11.11.2027	100	29	0	30.01.2028	29

Sales line 2nd part

Type	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
→ Item		0	0	-	15.11.2027	12.11.2027	11.11.2027



Reservation

Lines | Manage Line Order

New Line Delete Line Select items...

Type	Purchasing Code	Location Code	Quantity	Line Discount Amount	Qty. to Assemble to Order	Reserved Quantity	Unit of Measure Code	Unit Price Excl. VAT
→ Item	:	BLUE	100	0,00		100	PCS	100,00

Sales Line | Work Date: 01.11.2027

Reservation Entries | Search Edit List Cancel Reservation

Reservation Status	Item No.	Location Code	Quantity (Base)	Reserved For	Reserved From
→ Reservation	P_043	BLUE	-71	Sales Order 1210	Item Ledger Entry 951
Reservation	P_043	BLUE	-29	Sales Order 1210	Requisition Line PLANN

Manage Home Prepare Line Item Availability by More options

Carry Out Action Message... Refresh Planning Line... Reserve

Add Vendor code

Warning	No.	Action Message	Acc... Acti... Mes...	Original Due Date	Due Date	Starting Date-Time	Ending Date-Time	Description	Original Quantity	MPS Order	Quantity	Ref. Order Type	Vendor No.
-	P_043	New	☑		11.11.2027	02.11.2027 0:00	08.11.2027 23:59	Kosa ocelová luční		<input type="checkbox"/>	29	Purchase	<input style="border: 1px solid red;" type="text"/>

Purchase order line

Type	No.	Item Reference No.	Description	Location Code	Bin Code	Drop Ship...	Quantity	Reserved Quantity	Unit of Measure Code	Direct Unit Cost Excl. VAT	Unit Cost (LCY)	Line Amount Excl. VAT
Item	P_043		Kosa ocelová luční	BLUE		<input type="checkbox"/>	29	29	PCS	7,00	7,00	203,00



Item P_043 Kosa ocelová luční | Work Date: 01.11.2027

Posting Date	Entry Type	Document Type	Document No.	Lot No.	Expiration Date	Item No.	Cost Amount (Expected)	Description	Departme... Code	Location Code	Quantity	Invoiced Quantity	Remaining Quantity
01.11.2027	Purchase	Purchase Receipt	107152	-		P_043	0,00			BLUE	29	29	29
01.11.2027	Transfer	Transfer Receipt	109019	-		P_043	0,00			BLUE	71	71	71
01.11.2027	Transfer	Transfer Receipt	109019	-		P_043	0,00			OUT. LOG.	-71	-71	0
01.11.2027	Transfer	Transfer Shipment	108022	-		P_043	0,00			OUT. LOG.	71	71	0
01.11.2027	Transfer	Transfer Shipment	108022	-		P_043	0,00			BAS	-71	-71	0
01.11.2027	Purchase		T00061	-		P_043	0,00			BAS	71	71	0

It was originally bought in the wrong location and corrected by transfer

Další varianta pro stejné parametry (pouze WD=2.12.2027 místo 1.11.2027)

Manage <input checked="" type="checkbox"/> Accept <input checked="" type="checkbox"/> Available-to-Promise <input checked="" type="checkbox"/> Capable-to-Promise						
Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date
→ I_0004	IBM 370 Hydraulic Unit		02.12.2027	18.12.2027	02.12.2027	14.12.2027

				Time Type	Date type
02.12.2027	Čtvrtek		1	Lead Time	Original Shipment time
03.12.2027	Pátek		1	Lead Time	
04.12.2027	Sobota				
05.12.2027	Neděle				
06.12.2027	Pondělí		1	Lead Time	
07.12.2027	Úterý		1	Lead Time	
08.12.2027	Středa		1	Safety Lead Time	
09.12.2027	Čtvrtek		1	Safety Lead Time	
10.12.2027	Pátek		1	Offset	
11.12.2027	Sobota				
12.12.2027	Neděle				
13.12.2027	Pondělí		1	IWHT	
14.12.2027	Úterý				Earliest shipment date
15.12.2027	Středa	1			
16.12.2027	Čtvrtek	1			
17.12.2027	Pátek	1			
18.12.2027	Sobota	1			Planned Delivery Date
		4	8		
LT	4				Shipment time 3
SLT	2				OWHT 1
Offset	1				
IWHT	1				
	8				4



8 D + 2D weekend



4D


Varianta příkladu z výuky 20241125

Edit - Order Promising Lines - Sales Order

No. 1223

Manage Accept Available-to-Promise Capable-to-Promise

8 D + 2D weekend



Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date	Unavailable Quantity
→ P_045	Hydraulic Unit IBM 370		02.11.2027	18.11.2027	02.11.2027	12.11.2027	100	100	0	31.01.2028	29

4D + 2D weekend



				Time type	Date type
02.11.2027	Úterý	1		Lead Time	Original Shipment time
03.11.2027	Středa	1		Lead Time	
04.11.2027	Čtvrtek	1		Lead Time	
05.11.2027	Pátek	1		Lead Time	
06.11.2027	Sobota				
07.11.2027	Neděle				
08.11.2027	Pondělí	1		Safety Lead Time	
09.11.2027	Úterý	1		Safety Lead Time	
10.11.2027	Středa	1		Offset	
11.11.2027	Čtvrtek	1		IWHT	
12.11.2027	Pátek				Earliest shipment date
13.11.2027	Sobota				
14.11.2027	Neděle				
15.11.2027	Pondělí	1		Shipment Time	
16.11.2027	Úterý	1		Shipment Time	
17.11.2027	Středa	1		Shipment Time	
18.11.2027	Čtvrtek	1		OWHT	Planned Delivery Date
		4	8		
LT	4			Shipment time	3
SLT	2			OWHT	1
Offset	1				
IWHT	1				
	8				4

End of Basic section

Advanced area of ATP-CTP

Navazuje na původní příklad !!

**Je už provedena v modelu, takže není potřeba
dále probírat**

1. Reservation -> RQWS -> Purchase (to replenish)
2. Requested Delivery Date Options

Reservations I.

Quantity	Unit Price Excl. VAT	Line Amount Excl. VAT	Unit Cost (LCY)	Line Discount %	Qty. to Assemble to Order	Unit of Measure Code	Purchasing Code	Reserved Quantity	Qty. to Ship
100	1 000,00	100 000,00	800,00		-	PCS		100	100

Reservation Entries | Search | Edit List | Cancel Reservation | More options

Reservation Status ▼	Item No.	Location Code	Quantity (Base)	Reserved For	Reserved From
→ Reservation	JB_011	BLUE	-29	Sales Order 1452	Requisition Line PLANN
Reservation	JB_011	BLUE	-71	Sales Order 1452	Item Ledger Entry 1440

View - Requisition Lines

Search | Show Worksheet | Reservation Entries | Item Tracking Lines | Dimensions

Worksheet Template Name ↑ ▼	Journal Batch Name ↑ ▼	Type	No.	Description	Location Code	Quantity
PLANNING	DEFAULT	Item	JB_011	Hydraulic Unit IBM 370	BLUE	29

Proposed refill

Reservations II.

← Planning Worksheets | Work Date: 2023/07/03 ✓ Saved

Name: DEFAULT

Manage Process Prepare Line Item Availability by More options ↗

Warning	No.	Action Message	Accept Action Message	Original Due Date	Due Date	Starting Date-Time	Ending Date-Time	Description	Original Quantity	MPS Order	Quantity	Ref. Order Type	Ref. Order No.
→ Emergency	1150	New	<input type="checkbox"/>		2022/06/30	2022/06/27 21:14	2022/06/29 23:00	Front Hub		<input type="checkbox"/>	52	Prod. Order	101069
Attention	1150	New	<input type="checkbox"/>		2023/02/01	2023/01/31 09:38	2023/01/31 23:00	Front Hub		<input checked="" type="checkbox"/>	4	Prod. Order	101070
Attention	1150	New	<input type="checkbox"/>		2022/07/09	2022/07/01 08:00	2022/07/06 21:40	Front Hub		<input type="checkbox"/>	100	Prod. Order	101072
Exception	1150	New	<input type="checkbox"/>		2022/07/01	2022/06/28 09:15	2022/06/28 23:00	Front Hub		<input type="checkbox"/>	5	Prod. Order	101073
Attention	1150	New	<input type="checkbox"/>		2023/02/01	2023/01/27 16:12	2023/01/30 23:00	Front Hub		<input checked="" type="checkbox"/>	26	Prod. Order	101074
Attention	1151	Cancel	<input type="checkbox"/>		2023/03/06	2023/03/05 00:00	2023/03/05 00:00	Axle Front Wheel	104	<input type="checkbox"/>	0	Purchase	106246
Attention	1151	Cancel	<input type="checkbox"/>		2023/03/06	2023/03/05 00:00	2023/03/05 00:00	Axle Front Wheel	5	<input type="checkbox"/>	0	Purchase	106246
Emergency	1151	New	<input type="checkbox"/>		2022/06/30	2022/06/28 08:00	2022/06/29 23:00	Axle Front Wheel		<input type="checkbox"/>	62	Purchase	
Attention	1151	New	<input type="checkbox"/>		2023/01/31	2023/01/29 08:00	2023/01/30 23:00	Axle Front Wheel		<input type="checkbox"/>	4	Purchase	
Attention	1151	Cancel	<input type="checkbox"/>		2023/03/06	2023/03/05 00:00	2023/03/05 00:00	Axle Front Wheel	10.5	<input type="checkbox"/>	0	Purchase	106246
Attention	1151	Cancel	<input type="checkbox"/>		2023/03/06	2023/03/05 00:00	2023/03/05 00:00	Axle Front Wheel	10	<input type="checkbox"/>	0	Purchase	106250
	JB_011	New	<input checked="" type="checkbox"/>		2023/07/11	2023/07/04 00:00	2023/07/08 23:59	Hydraulic Unit IBM 370		<input type="checkbox"/>	29	Purchase	

↓

Carry out action message

↓

Purchase Order

Purchase Order line

1st part Purchase line

Type	Drop Ship...	Item Reference No.	Description	Location Code	Bin Code	Quantity	Reserved Quantity	Unit of Measure Code
Item	<input type="checkbox"/>		Hydraulic Unit IBM 370	BLUE		29	29	PCS

2nd part Purchase line

Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Promised Receipt Date	Planned Receipt Date	Expected Receipt Date
29		0	0	-		2023/07/08	2023/07/11

Sales line

Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
100		0	0	-	2023/07/15	2023/07/12	2023/07/11

3 days

See 3 days calculation

Calculation purchase

Planned Receipt date + Inbound warehouse handling time + Safety Lead time = Expected receipt date

7.8. +2D (Safety Lead Time) +1D (IWHT)= 11.8

BLUE · Blue Warehouse

Online Map Resource Locations Zones Bins Inventory Posting Setup Warehouse Employees Dimensions More options

Require Receive	<input checked="" type="checkbox"/>	Default Bin Selection	
Require Shipment	<input checked="" type="checkbox"/>	Outbound Whse. Handling Time	1D
Require Put-away	<input checked="" type="checkbox"/>	Inbound Whse. Handling Time	1d
Use Put-away Worksheet	<input type="checkbox"/>	Base Calendar Code	
Require Pick	<input checked="" type="checkbox"/>	Customized Calendar	No
Bin Mandatory	<input type="checkbox"/>	Use Cross-Docking	<input type="checkbox"/>
Directed Put-away and Pick	<input type="checkbox"/>	Cross-Dock Due Date Calc.	

Unavailability date

Work Date: 2023/07/03

Company Information

Bank Account No. * [] Bank Account Postin... []

Payment Routing No. 99-99-999

Shipping

Ship-to Name CRONUS International Ltd. Location Code []

Ship-to Address 5 The Ring Responsibility Center []

Ship-to Address 2 Westminster Check-Avail. Period C. 90D

Ship-to City London Check-Avail. Time Bu... Week

County [] Base Calendar Code []

Ship-to Post Code W2 8HG Customized Calendar No

Ship-to Country/Regi... GB Cal. Convergence TL... 1Y

Ship-to Contact []

Manage Accept Available-to-Promise Capable-to-Promise

Sales line

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability
→ JB_011	Hydraulic Unit IBM 370		2023/07/03	2023/07/15	2023/07/03	2023/07/11	100	100	0

Edit - Order Promising Lines - Sales Order

No. 1452 **90 Days**

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity	Availability	Unavailability Date
→ JB_011	Hydraulic Unit IBM 370		2023/07/03		2023/07/03		100	100	-29	2023/10/01

Requested Delivery date options

Requested Delivery date not specified

- Shipment date + outbound whse. handling time = **Planned shipment date**
- **Planned shipment date** + Shipping time = Planned delivery date



Planned Delivery Date = Shipping Time + OWHT + Shipment date

Requested Delivery date specified

- Requested delivery date - Shipping Time = **Planned shipment date**
- **Planned shipment date** - outbound whse. handling time = Shipment date



Requested Delivery Date = Shipping Time + OWHT + Shipment date



Requested Delivery Date & ATP-CTP

Working day will be set to 3.7.2023 (2023/07/03)

We will sell all item JB_011 in order to get Inventory=0

No. ↑	Description	Type	Inventory	Substi... Exist	Assem... BOM	Production BOM No.
<u>JB_011</u>	: Hydraulic Unit IBM 370	Inventory	142	No	No	

Batch Name: DEFAULT


Manage Process Posting Line | More options

Posting Date	Entry Type	Price Calculation Method	Document No.	Item No.	Description	Location Code	Bin Code	Quantity	Unit of Measure Code	Unit Amount
2023/07/03	Sale	Lowest Price	T00069	JB_011	Hydraulic Unit IBM 370	BLUE		142	PCS	1 200,00



Working on it...

Journal Batch Name DEFAULT
Checking lines 1
Posting lines 1

 The journal lines were successfully posted.

Sales order 1

Sales Order | Work Date: 2023/07/03

1453 · The Cannon Group PLC

✕ The available inventory for item JB_011 is lower than the entered quantity at this location. [Show details](#) | [Don't show again](#)

Process | Posting | Release | Prepare | Print/Send | Request Approval | Order | Actions | Related | Automate | Fewer options

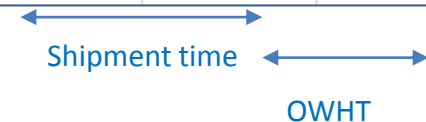
Customer Name	The Cannon Group PLC	Order Date	2023/07/03
Sell-to		Sales Order Type Code	
Address	192 Market Square	Due Date	2023/07/17
Address 2		Requested Delivery Date	
City	Birmingham	Promised Delivery Date	
County		External Document No.	
Post Code	B27 4KT	Your Reference	
Country/Region Code	GB	Salesperson Code	PS
Contact No.	CT000008	Campaign No.	
Phone No.		Opportunity No.	
Mobile Phone No.		Responsibility Center	BIRMINGHAM
Email		Assigned User ID	
Contact	Mr. Andy Teal	Status	Open

1st part of the Sales Line

Type	Drop Ship...	Item Reference No.	Assembly Order No.	Description	Special Order	Location Code	Requested Delivery Date	Promised Delivery Date	Line Discount Amount	Quantity	Unit Price Excl. VAT	Line Amount Excl. VAT
→ Item	:	<input type="checkbox"/>		Hydraulic Unit IBM 370	<input type="checkbox"/>	BLUE	2023/07/18		0,00	11	1 200,00	13 200,00

2nd part of the Sales Line

Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
11		0	0	-	2023/07/18	2023/07/15	2023/07/14



Sales order 2 (Action -> Plan -> Order Promising)

Edit - Order Promising Lines - Sales Order

No. 1453

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity
→ JB_Q11	Hydraulic Unit IBM 370	2023/07/18	2023/07/14		2023/07/14		11	11

4D

4D = 3D (Shipment Time)+ 1D (OWHT from Location Blue)

Manage Accept Available-to-Promise Capable-to-Promise

Item No.	Description	Requested Delivery Date	Requested Shipment Date ↑	Planned Delivery Date	Original Shipment Date	Earliest Shipment Date	Quantity	Required Quantity
→ JB_Q11	Hydraulic Unit IBM 370	2023/07/18	2023/07/14	2023/07/18	2023/07/14	2023/07/14	11	11

Reserved quantity

Part of the Sales Line

Line Discount Amount	Quantity	Unit Price Excl. VAT	Line Amount Excl. VAT	Unit Cost (LCY)	Line Discount %	Qty. to Assemble to Order	Unit of Measure Code	Purchasing Code	Reserved Quantity	Qty. to Ship
0,00	11	1 200,00	13 200,00	800,00		-	PCS		11	11

Sales Line | Work Date: 2023/07/03

Reservation Entries | Search | Edit List | Cancel Reservation | More options

Reservation Status ▼	Item No.	Location Code	Quantity (Base)	Reserved For	Reserved From
→ Reservation	: JB_Q11	BLUE	-11	Sales Order 1453	Requisition Line PLANN

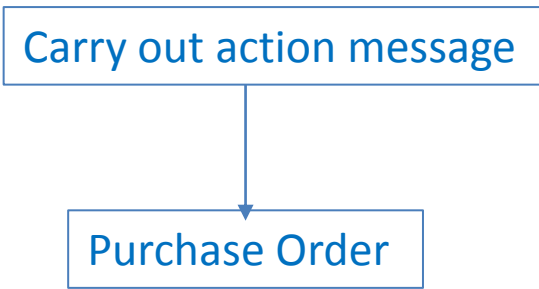
View - Requisition Lines

Search | Show Worksheet | Reservation Entries | Item Tracking Lines | Dimensions

Worksheet Template Name ↑ ▼	Journal Batch Name ↑ ▼	Type	No.	Description	Location Code	Quantity
PLANNING	: DEFAULT	Item	JB_Q11	Hydraulic Unit IBM 370	BLUE	11

Requisition Worksheet

Warning	No.	Action Message	Accept Action Message	Original Due Date	Due Date	Starting Date-Time	Ending Date-Time	Description	Original Quantity	MPS Order	Quantity	Ref. Order Type
-	JB_011	New	<input checked="" type="checkbox"/>		2023/07/14	2023/07/07 00:00	2023/07/11 23:59	Hydraulic Unit IBM 370		<input type="checkbox"/>	11	Purchase



Purchase process (after the CTP calculation)

July 7 -> July 14 = **7D** = **4D** (Lead Time) + **2D** (Safety Lead Time) + **1D** (IWHT at Location Blue)

- order date + lead time calculation = planned receipt date
- planned receipt date + inbound whse. handling time + safety lead time = expected receipt date

3D

Lines		Manage	More options	Purchase line								
Type	Quantity Received	Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Promised Receipt Date	Planned Receipt Date	Expected Receipt Date			
→ Item		11		0	0	-		2023/07/11	2023/07/14			

Combination of CTP and reservations

1. Create a new item with the same parameters as the stock items already used (LT=4D, SLT=2D,...) – Date 03.07.2023
2. Purchase 10 pieces of this item using Item Journal
2. Moving the working date into the future - 17.7.2023
3. Creating a Purchase order (20 Ks) with the understanding that this document will not be charged and will serve as an additional source for booking in addition to the stock
- 3.a ->Working date to 31.7.2023
4. Sales order for 40 pcs of this item
5. Reservation with actual Item ledger entries (stock) lines 3 pcs and 7 pcs
6. Reservation with actual Purchaser Order lines 11 pcs and 9 pcs
6. CTP and accept calculations
7. See field reservation
8. See Purchase order dates
9. See Sales Order dates

Purchase order

Purchase Order | Work Date: 2023/12/01

106341 - London Postmaster

Process | Posting | Release | Prepare | Print/Send | Request Approval | Order | Actions | Related | Automate | Fewer options

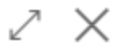
Vendor Order No.	
Phone No.	
Vendor Shipment No.	
Mobile Phone No.	
Alternate Vendor Address Code	
Email	mrs.carol.philips@contoso.com
Responsibility Center	LONDON
Contact	Mrs. Carol Philips
Assigned User ID	
Document Date	2023/07/03
Status	Open

Lines | Manage | Line | Functions | Order | Fewer options

Type	No.	Drop Ship...	Item Reference No.	Description	Location Code	Bin Code	Quantity	Reserved Quantity	Unit of Measure Code	Direct Unit Cost Excl. VAT	Line Amount Excl. VAT
→ Item	JB_013	<input type="checkbox"/>		Oscilloskop Tektronix 370	BLUE		20	20	PCS	1 000,00	20 000,00

Sales order and reservation

Edit - Reservation - Order 1459 JB_013



General

Item No.	JB_013	Quantity to Reserve	40
Shipment Date	2023/07/25	Reserved Quantity	40
Description	Oscilloskop Tektronix 370	Unreserved Quantity	0



Process Line



Summary Type	Total Quantity	Total Reserved Quantity	Qty. Allocated in Warehouse	Total Available Quantity	Current Reserved Quantity
Item Ledger Entry	10	10			10
→ Purchase Line, Order	20	20			20

Sales Order line – important part for the model

Order Service Fewer options											
Purchasing Code	Reserved Quantity	Qty. to Ship	Quantity Shipped	Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
	40	40		40		0	0	-	2023/07/29	2023/07/26	2023/07/25

 OWHT
 Shipment time

Reservation Entries							Search	Edit List	Cancel Reservation	Automate	Fewer options
Reservation Status	Item No.	Location Code	Quantity (Base)	Reserved For	Reserved From						
→ Reservation	JB_013	BLUE	-11	Sales Order 1459	Purchase Order 106341						
Reservation	JB_013	BLUE	-3	Sales Order 1459	Item Ledger Entry 1447						
Reservation	JB_013	BLUE	-10	Sales Order 1459	Requisition Line PLANN						
Reservation	JB_013	BLUE	-7	Sales Order 1459	Item Ledger Entry 1447						
Reservation	JB_013	BLUE	-9	Sales Order 1459	Purchase Order 106341						

Requisition worksheet

View - Requisition Lines

Search **Show Worksheet** Reservation Entries Item Tracking Lines Dimensions

Worksheet Template Name	Journal Batch Name	Type	No.	Description	Location Code	Quantity
PLANNING	DEFAULT	Item	JB_013	Osciloskop Tektronix 370	BLUE	10

$$7D = 4D \text{ (Lead Time)} + 2D \text{ (Safety Lead Time)} + 1D \text{ IWHT}$$

No.	Action Message	Accept Action Message	Location Code	Original Due Date	Due Date	Starting Date-Time	Ending Date-Time	Description	Original Quantity	MPS Order	Quantity
JB_013	New	<input checked="" type="checkbox"/>	BLUE		2023/07/25	2023/07/18 00:00	2023/07/22 23:59	Osciloskop Tektronix 370		<input type="checkbox"/>	10

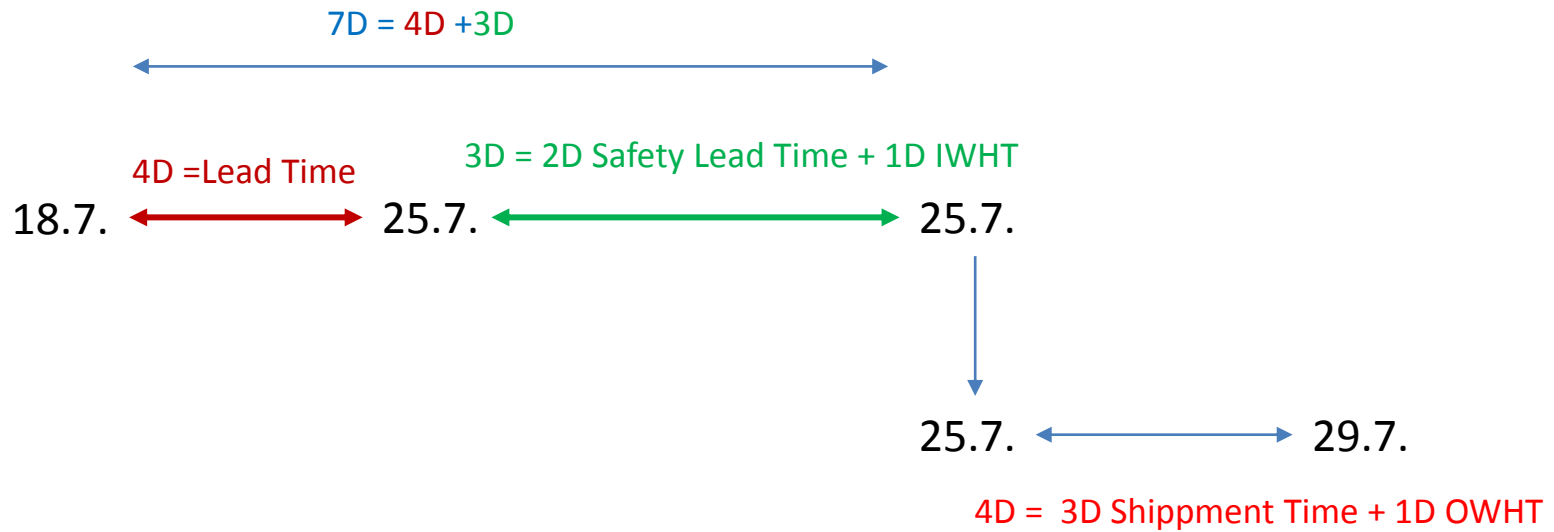
Order Service Fewer options **Sales Order Line**

Purchasing Code	Reserved Quantity	Qty. to Ship	Quantity Shipped	Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Planned Delivery Date	Planned Shipment Date	Shipment Date
	40	40		40		0	0	-	2023/07/29	2023/07/26	2023/07/25

Shipment time

$$3D = 2D \text{ Safety Lead Time} + 1D \text{ IWHT}$$

A Different Perspective on the Planned delivery date calculation



Availability by period

...ilability by Periods | Work Date: 2023/12/01

JB_013 · Osciloskop Tektronix 370

Related Automate

Options

View by Month View as Net Change

Period Start	Period Name	Gross Requirement	Scheduled Receipt	Planned Order Receipt	Projected Available Balance
2023/04/01	April	0	0	0	10
2023/05/01	May	0	0	0	10
2023/06/01	June	0	0	0	10
2023/07/01	July	40	20	10	0
2023/08/01	August	0	0	0	0
2023/09/01	September	0	0	0	0

Planning by use of Requisition worksheet

Completing the relationships between Order Date, Planned Receipt Date and Expected Receipt Date. ATP-CTP is not used in this model

Part of Sales Order line (Item has the same parameters already used)

Planned Delivery Date	Planned Shipment Date	Shipment Date	Department Code
2023/12/05	2023/12/02	2023/12/01	SALES

Part of RQWS line (Item has the same parameters already used as well as Vendor)

Description	Location Code	Order Date	Original Quantity	Planning Flexibility	Supply From	Quantity	Unit of Measure Code	Direct Unit Cost	Original Due Date	Due Date
Mechanical broom with remote ...	BLUE	2023/11/24		Unlimited	10000	10	PCS	100,00		2023/12/01

Part of Purchase Order created from RQWS line

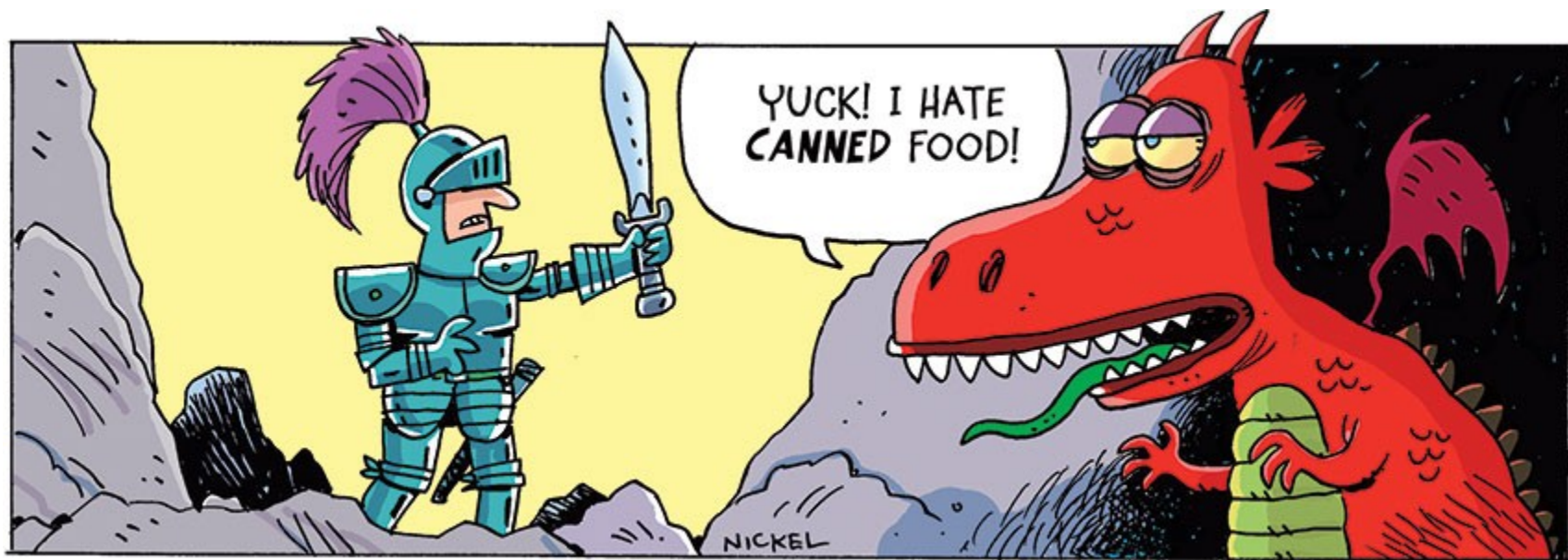
Qty. to Invoice	Quantity Invoiced	Qty. to Assign	Item Charge Qty. to Handle	Qty. Assigned	Promised Receipt Date	Planned Receipt Date	Expected Receipt Date
10		0	0	-		2023/11/28	2023/12/01

LT=4D

SLT+IWHT =3D

Order Date + Lead Time = **Planned Receipt Date** = 4D

Planned Receipt Date + Safety Lead Time +IWHT= Expected Receipt Date



YUCK! I HATE
CANNED FOOD!

NICKEL