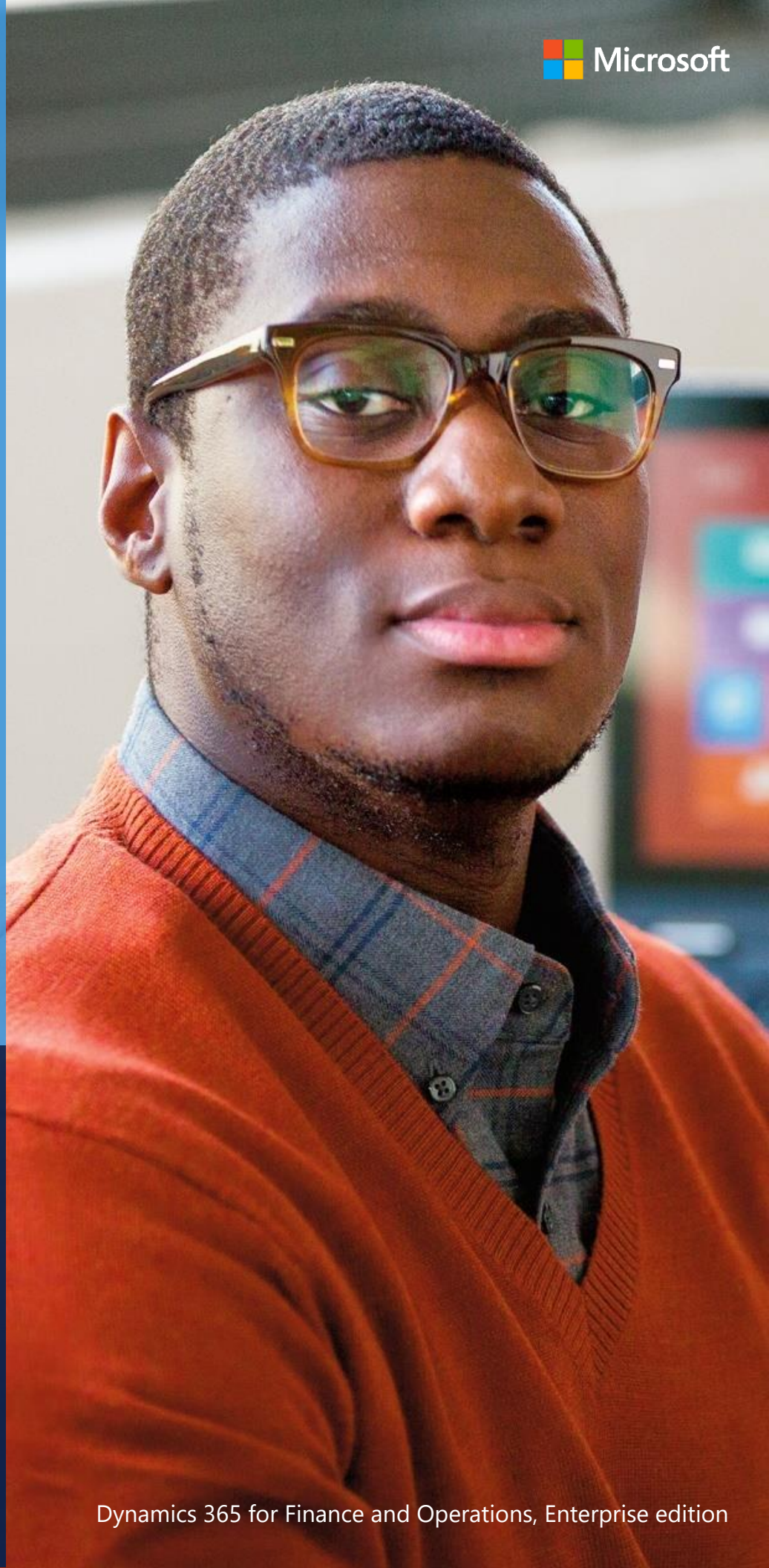


Make to order

The document walks you through a simple make-to-stock scenario. It shows the basic capabilities for making a forecast, running master planning, and running the manufacturing process.



Demo script

November 2017

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Contents

Target audience	3
Demo scenario	3
Demo pre-steps	3
Adjust the on-hand inventory for one of the materials	3
Demo step-by-step	4
Create a demand forecast	4
Run master planning	5
Process the production order	6

Make to order

This document shows how to create a demo for a simple make-to-stock scenario.

Important:

This demo script assumes that you are running data created from the demo data packages that were released with Microsoft Dynamics 365 for Finance and Operations, Enterprise edition 7.3. It is not intended for use with the demo data companies, such as USMF and DEMF, that also ship with the product. For more information about the demo data packages, see [Generate demo data by using packages](#).

Target audience

Business consultants and users in the supply chain area of the system, who must complete the following tasks, will find value in this document:

- Make a demand forecast for a product, and then run master planning to get an overview of the resulting production plan.
- Learn about the basic steps in the production order life cycle.

Demo scenario

The demo scenario runs on Contoso demo data in the USHQ legal entity. Even though the demo addresses key pain points and challenges for various roles, it can be completed by the system administrator.

The scenario starts with the creation of a demand forecast for product D0003 a standard cabinet for a loud speaker. Master planning is run, and the resulting planned production orders are created to meet the forecast demand. One of the planned orders is firming into a production order, which is then ready to be processed. The production order is released, and some adjustments are made to the estimated amount of material and time consumption. The production order is reported as finished and is ended. Finally, the realized cost is inspected against the planned cost.

Demo pre-steps

Before you start the demo, you must prepare some data.

Adjust the on-hand inventory for one of the materials

Post the adjustment journal for product D0003 to adjust the inventory level for that product to 0 (zero).

- 1 Select **Inventory management** > **Item** > **Inventory adjustment**.
- 2 Select journal **00080**.
- 3 Select **Post**.

Demo step-by-step

Create a demand forecast

Create a demand forecast for product D0003.

- 1 Select **Product information management** > **Products** > **Released products**.
- 2 Filter on product **D0003**.
- 3 On the **Plan** tab, in the **Forecast** group, select **Demand forecast**.
- 4 Select **New**.
- 5 On the forecast line, set the following values:
 - **Model:** CurrentF
 - **Sales quantity:** 200
- 6 Select **Save**.
- 7 Select **Allocate forecast**.
- 8 In the **Allocate forecast** dialog box, set the following values:
 - **Method:** Period
 - **Per:** 1
 - **Unit:** Month
 - **End:** One year from the current date
- 9 Select **OK**.

The **Allocation** section now shows the monthly forecast for product D0003.

Dynamics 365 Finance and Operations - Product information management > Products > Released products

D0003: STANDARD SPEAKER
Demand forecast, Item number: D0003

Allocate forecast | Bulk update | Inventory forecast | Create item requirement

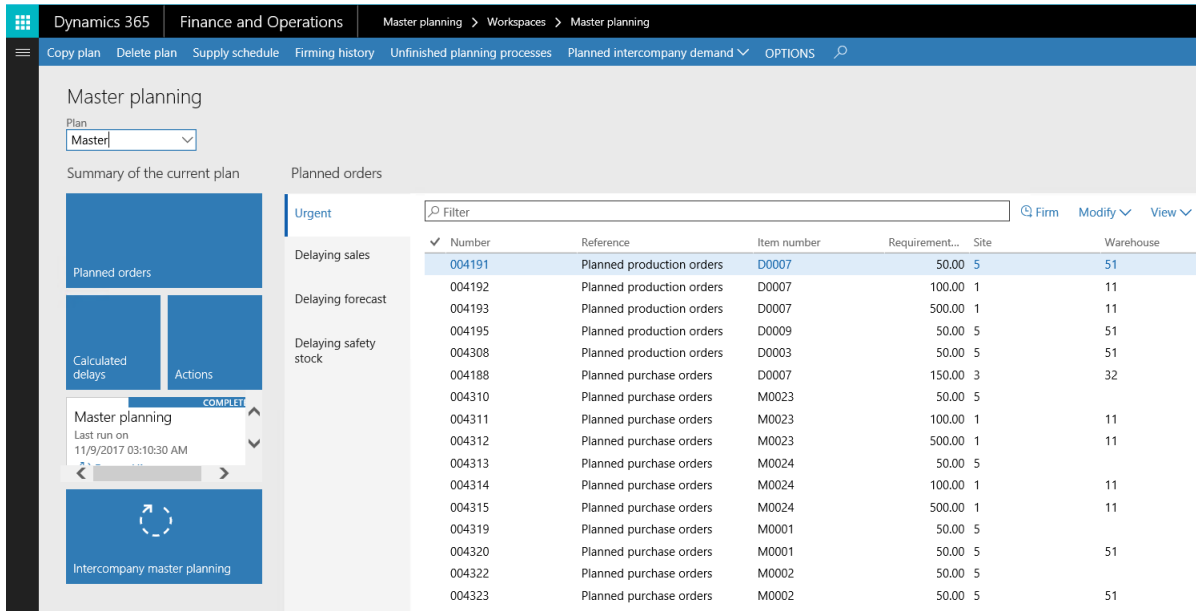
Customer account	Customer group	Item number	Product name	Site	Warehouse	Item allocation key	Sales quantity	Un
		D0003	StandardSpeaker	1	13		200.00	ea

Allocation

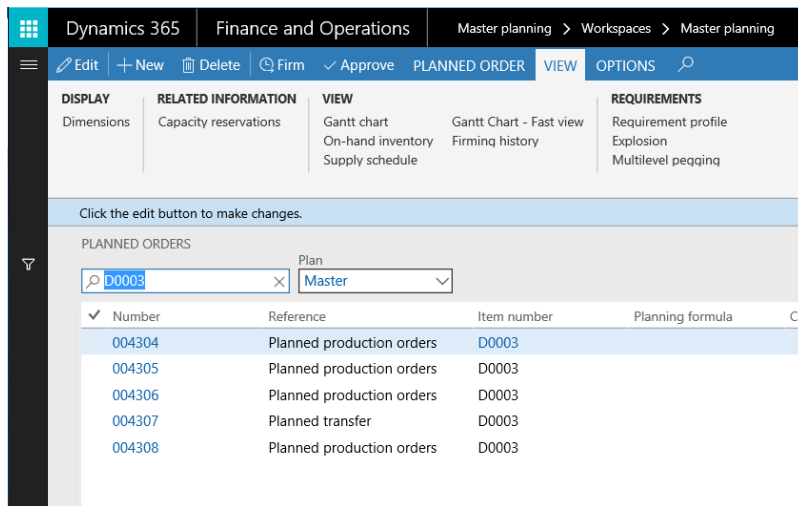
Date	Sales quantity	Unit	CW quantity	CW unit	Amount	Currency
11/9/2017	200.00	ea			44,000.00	USD
12/9/2017	200.00	ea			44,000.00	USD
1/9/2018	200.00	ea			44,000.00	USD
2/9/2018	200.00	ea			44,000.00	USD
3/9/2018	200.00	ea			44,000.00	USD
4/9/2018	200.00	ea			44,000.00	USD
5/9/2018	200.00	ea			44,000.00	USD
6/9/2018	200.00	ea			44,000.00	USD
7/9/2018	200.00	ea			44,000.00	USD
8/9/2018	200.00	ea			44,000.00	USD
9/9/2018	200.00	ea			44,000.00	USD
10/9/2018	200.00	ea			44,000.00	USD
11/9/2018	200.00	ea			44,000.00	USD

Run master planning

- 1 Select **Master planning > Workspaces > Master planning**.
- 2 In the **Plan** field in the upper-left corner, select **Master**.
- 3 On the **Master planning** tile, select **Run**.
- 4 In the **Master planning** dialog box, select **OK**.



- 5 Select the **Planned orders** tile to show the list of planned orders.
- 6 Filter on product **D0003**. Select **Item number** as the context.



- 7 In the filtered list, select the first planned order.
- 8 Select **Firm**.
- 9 In the **Firming** dialog box, set the **Update marking** option to **No**.
- 10 Select **OK**.

Process the production order

- 1 Select **Production control** > **Production orders** > **All production orders**.
- 2 Filter on item number **D0003**.
- 3 On the **Production order** tab, in the **Process** group, select **Release** to release the production order.
- 4 On the **Production order** tab, in the **Process** group, select **Start** to start the production order.
- 5 In the **Start** dialog box, on the **General** tab, set the following values:
 - **Automatic route consumption:** Never
 - **Post picking list now:** No
 - **Post route card now:** No

Start

Select Default values

Overview **General** Information Run in the background

IDENTIFICATION	OPERATIONS	PICKING LIST JOURNAL
Batch order P000186	From Oper. No. <input type="text"/>	Picking list Pick
Name StandardSpeaker	To Oper. No. <input type="text"/>	Automatic BOM consumption Flushing principle
START	JOURNALS	Create journal per <input type="text"/>
Date 11/9/2017	Show journal info Yes <input checked="" type="radio"/>	Post picking list now No <input checked="" type="radio"/>
CW quantity <input type="text"/>	ROUTE CARD JOURNAL	Physical reduction No <input checked="" type="radio"/>
Quantity 200.00	Route card Route	Complete picking list journal No <input checked="" type="radio"/>
Start production Yes <input checked="" type="radio"/>	Automatic route consumption Never	End-mark picking list No <input checked="" type="radio"/>
References No <input checked="" type="radio"/>	End-mark route No <input checked="" type="radio"/>	Pick negative No <input checked="" type="radio"/>
	Post route card now No <input checked="" type="radio"/>	Print picking list No <input checked="" type="radio"/>
		<input type="button" value="Print options"/>

- 6 Select **OK**.
- 7 On the **View** tab, in the **Journals** group, select **Picking list** to open the **Picking list journal** page.
- 8 Select the journal number to open the **Journal lines** section.

9 In the **Journal lines** section, adjust the **Consumption** value for the following line items:

- On the line for item M0001, change the value from **200** to **203**.
- On the line for item M0002, change the value from **200** to **201**.
- On the line for item M0003, change the value from **200** to **205**.
- On the line for item M0004, change the value from **200** to **202**.
- On the line for item M0007, change the value from **200** to **210**.

✓	Date	Lot ID	Item number	Proposal	Consumption	Unit	End	L...
	11/9/2017	012699	M0001	200.00	203.00	ea	<input type="checkbox"/>	
	11/9/2017	012700	M0002	200.00	201.00	ea	<input type="checkbox"/>	
	11/9/2017	012701	M0003	200.00	205.00	ea	<input type="checkbox"/>	
✓	11/9/2017	012702	M0004	200.00	202.00	ea	<input type="checkbox"/>	
	11/9/2017	012703	M0007	200.00	210.00	ea	<input type="checkbox"/>	

10 Select **Post**.

11 In the dialog box for posting the journal, select **OK**.

12 On the **View** tab, in the **Journals** group, select **Job card** to open the **Job card journal** page.

13 Select **New**.

14 In the **Create production journal** dialog box, in the **Name** field, select **Job**.

15 Select **OK**.

16 Select **New** to create a journal line for each of the four jobs. Use the following values.

Assembly

- **Hours:** 52
- **Good quantity:** 200

Testing

- **Hours:** 38
- **Good quantity:** 200

TestOpr

- **Hours:** 45
- **Good quantity:** 200

Packing

- **Hours:** 15
- **Good quantity:** 198

- **Error quantity: 2**
- **End: Yes**
- **Operation complete: Yes**
- **Production reported as finished: Yes**

JOB CARD : P000106 : STANDARD SPEAKER
00935 : Job Card Journal

Journal header details

Journal lines

Date	Job identifica...	Resource	Worker	Start time	End time	Hours	Good quantity	CW good qty	Error quantity	CW error qty	Processing pe...	End	Operation co...	BOM consum...	Production re.
11/9/2017	005615	1211	000501	12:00 AM	12:00 AM	52.00	200.00				100.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11/9/2017	005616	1225		12:00 AM	12:00 AM	38.00	200.00				95.00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11/9/2017	005617	1221	000503	12:00 AM	12:00 AM	38.00						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11/9/2017	005618	1222	000504	12:00 AM	12:00 AM	15.00	198.00		2.00		100.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

17 Select **Post**.

18 In the dialog box for posting the journal, select **OK**.

19 On the **Production order** tab, in the **Process** group, select **End** to end the production order.

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