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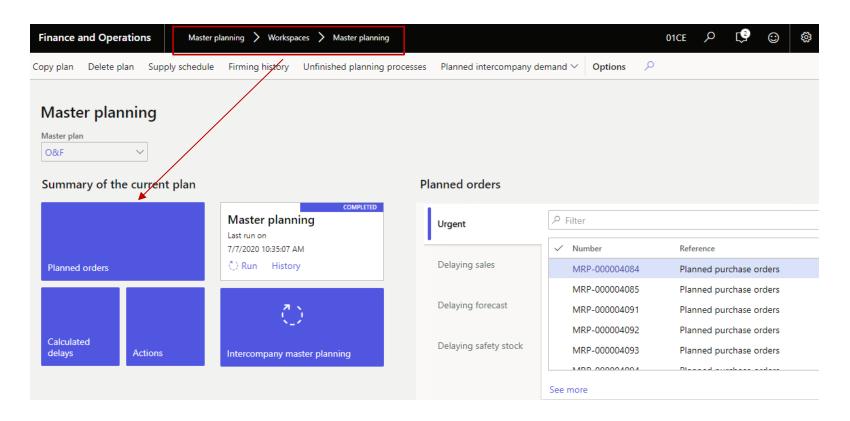
1. Creation of a Production Order

A Production Order can be created in two different ways:

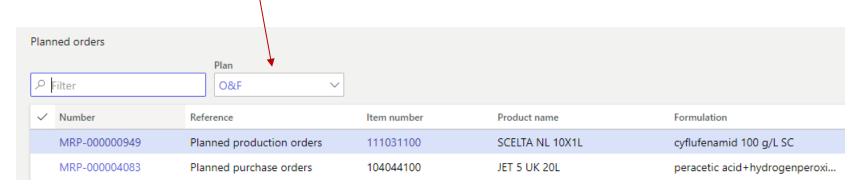
- From the Planned Production Orders: these Production Orders are planned by the Master Planning and are created automatically by D365. They result from the S&OP outcome.
- From nothing (no purchase plan): this kind of Production Order is created when there is no plan for a demand (unexpected) which might pop up out of the S&OP cycle (upside, urgent PRO to raise ...).

1.1. Create a Production Order from the Planned Production Orders (S&OP outcome)

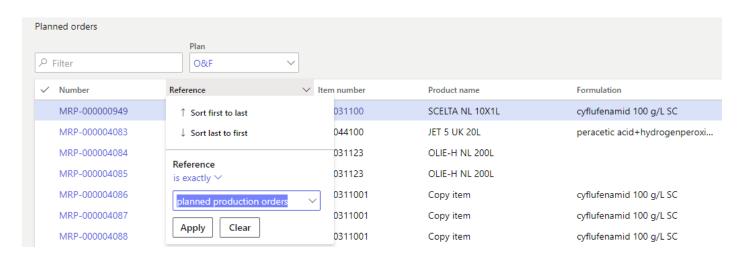
Pls follow the below path to reach your Planned Production Orders.



Be careful, the Plan should be O&F.



Once in the Planned Orders, you can filter the Planned Production Orders through the "Reference" column.

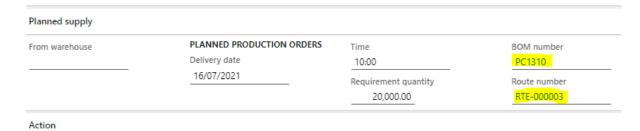




1.2. Check Planned Production Details

Open the planned production order and check the details are correct.

- BOM the BOM field must be complete, if the correct BOM is not available please contact a key user
- Route the Route field must be complete, if the correct Route is not available please contact a key user

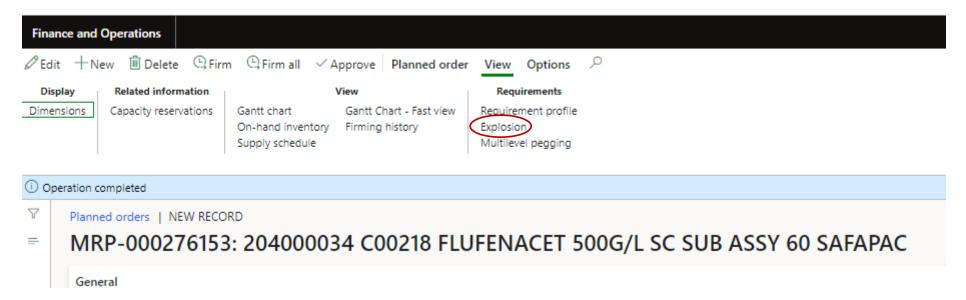


End date – check this is in line with the date you want to complete production. If it is later than the delivery date then this would suggest there is a bottleneck to delivering on time.

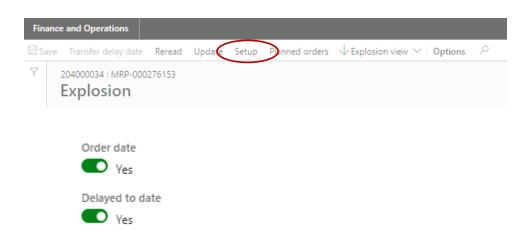


1.2.1. Explode a Planned Production Order

The first thing to do before approving or firming a planned production order is to check if there is any bottleneck and, to do so you need to explode the BOM:

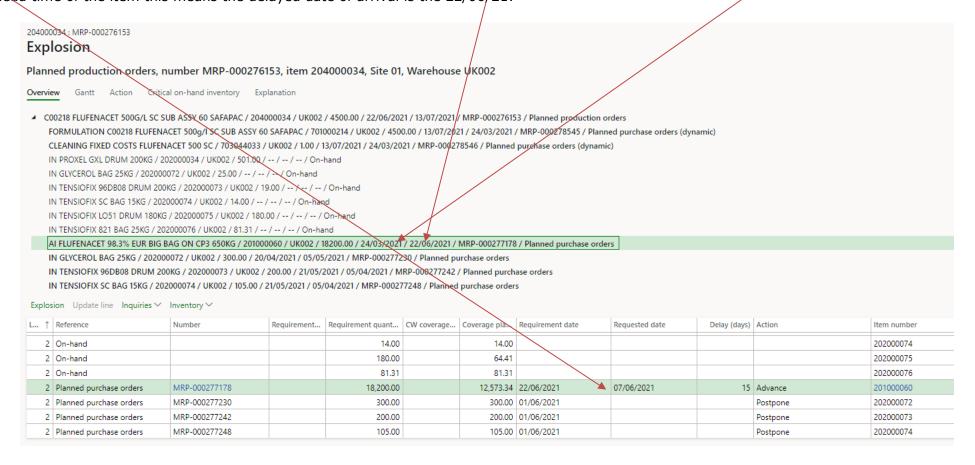


In the explosion view it can be useful to have dates showing in the BOM overview, go to the set up option and in the pop up screen turn on the dates and select 'OK'.





You will now see the dates against each item. You can now use these dates to identify any bottlenecks. In this example the AI Flufenacet is going to be late. The requested date for the AI based on the schedule of the production is the 07/06/21 but we can see from the additional dates in the overview the proposed date for ordering is todays date 24/03//21 and based on the lead time of the item this means the delayed date of arrival is the 22/06/21.



1.2.1.1. Identify the Bottlenecks

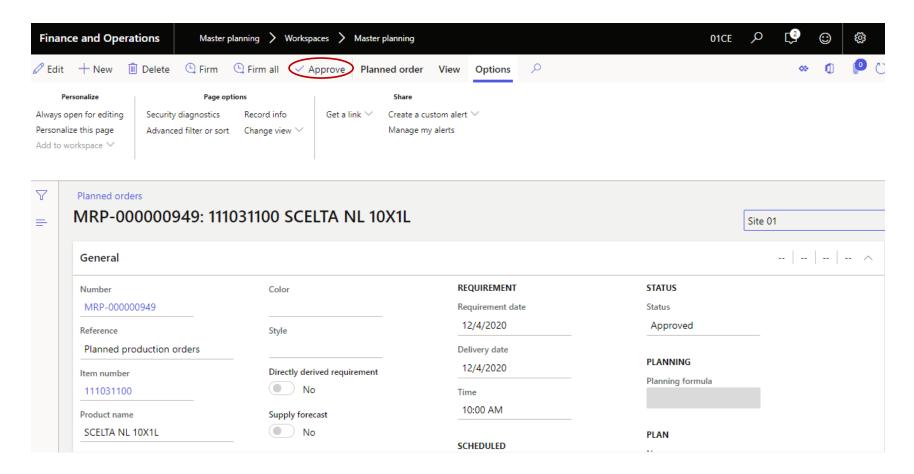
If there appear to be bottlenecks to the schedule of your planned production you should address these to the vendor schedulers. Check with them whether they think they can meet your requested dates, it may be possible to advance the materials with the supplier. If the vendor schedulers do not believe they can meet the necessary dates do not firm the production order. Instead you will need to change your production slot with your toller and reschedule the production order dates to the new slot and then explode the planned production order again and follow the same steps.

Once the bottlenecks disappear you know you can firm the production order if commitment is agreed with the branch and expect materials to be on time.

If you do not yet have commitment and you only want to approve the production order, explained in the next step, keep in mind the order date of the materials in the explosion overview, if the order date is only a few days away then you should aim to firm your production in plenty of time and not leave it with the approved status otherwise you will face new bottlenecks.

1.2.2. Approve a Production Order

If, for any reason, you cannot commit on production yet and don't want to go ahead in your Production Order authorization, you can just prepare it (checking if the quantity, date ... are correct) and approve it as follows:

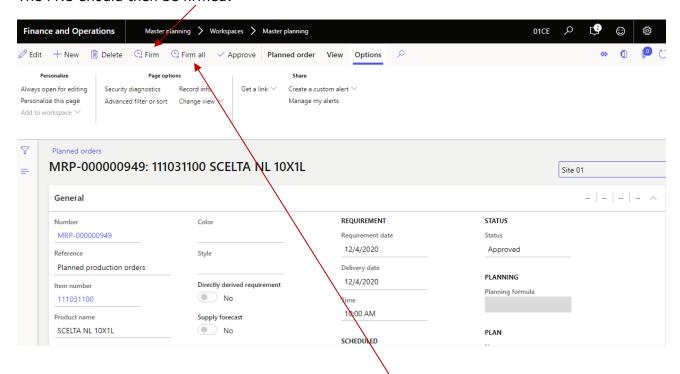




Approving your Production Order will enable you to save all your data because; otherwise, since the master planning is running every night, your data will disappear the following day if the sales forecasts were adjusted in the meantime.

1.2.3. Firm a Production Order

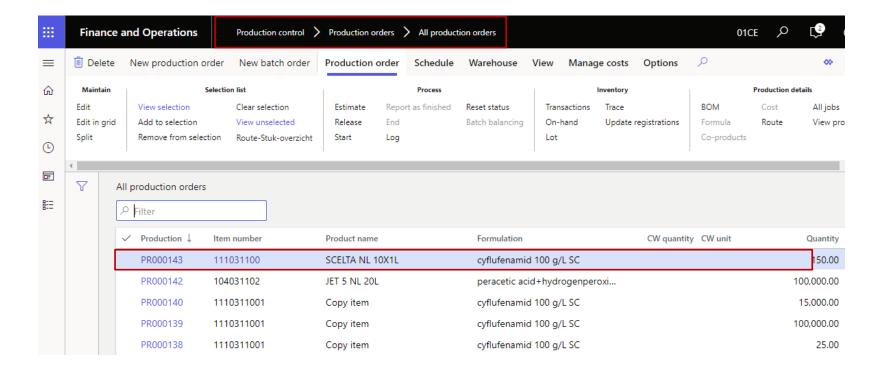
As long as a PRO is not firmed, it remains a draft. So, on the other hand, if you can go ahead in the Production Order authorization, it can be firmed immediately and, in this case, no need to Approve the PRO. The PRO should then be firmed:



The Production Orders can be firmed inside the PRO itself or from the main page of the Master Planning view. Several PROs can be firmed at the same time through the function "Firm all".

When a PRO is firmed, it is no longer visible in the "Planned Production Orders" list, the PRO reference (MRP...) changes and the PRO is moved to "All Production Orders".

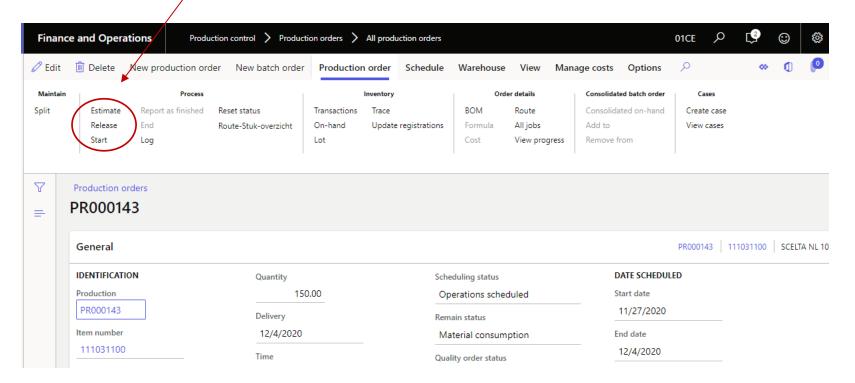
It is also at this time that the service PO to the toller is automatically created (please refer to Work Instruction 8U61 for the service PO creation).





When generated from the Planned Production Orders, the PR is already estimated and scheduled. No need to release the PR, this intermediary status can be skipped.

Estimate PR = generates the estimated BOM consumption

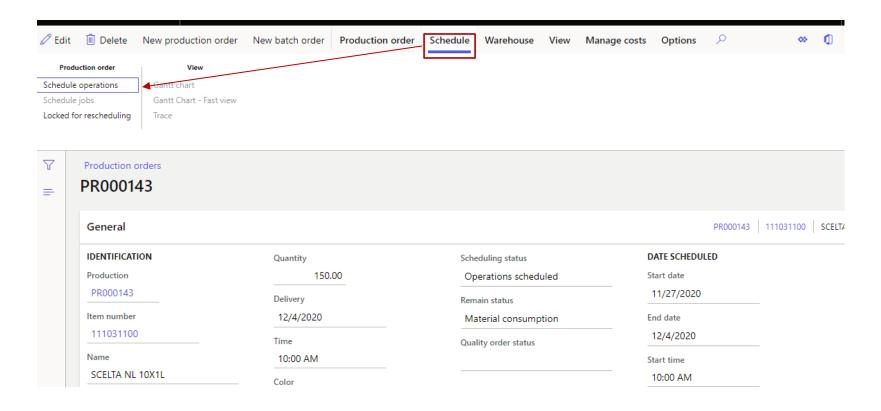


Please note the PR can also only be started when you know the production has started and only after the Label Coordinator reported as finished the Artwork Operation (otherwise, starting your PR will also start the artwork operation because all the route operations will be started on that occasion.

Updating your PR status (from scheduled to started for instance) will enable anyone from the team to check the PR status from the system instead of asking to the D&S Planner in charge of the production.

If the PR is updated (quantity, date ...) after it was firmed, then, it should be estimated again and the operations must be scheduled again following the below path.

Scheduling operations = scheduling the leadtime.

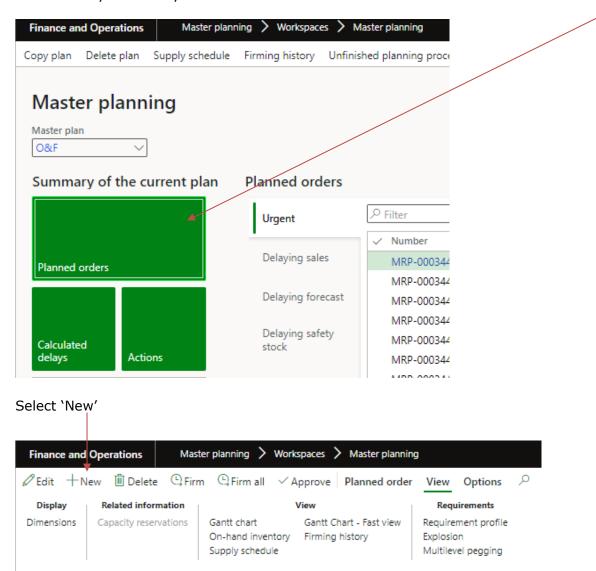


At this stage, the PR is created, and the service PO should have been confirmed and sent to the toller along with the PC Sheet. It means the production slot was confirmed by the toller and the next step will be the real start of the production.

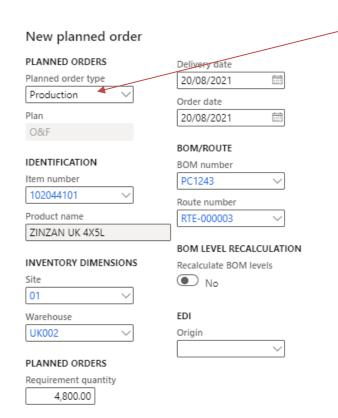


1.3. Create a new Production Order from scratch (no purchase plan, out of the S&OP cycle)

When there is no planned production order a new order can be created by going to the planned order list. Please do not create a new production order from the production order screen anymore as this will indicate to the vendor schedulers that the order is firmed before the feasibility of delivery is checked.



A Production Order creation window pops up, you need to select 'production' as the planned order type.



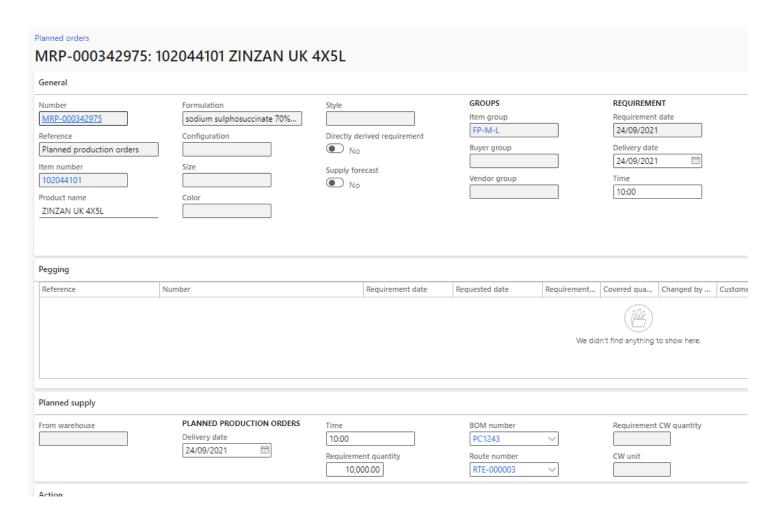
Enter the following information:

- Item number
- Warehouse where production will take place
- Quantity you want to produce
- Delivery date this should be the end date of your production
- BOM number should automatically populate but if not you need to choose the correct BOM
- Route number should automatically populate but if not you need to choose the correct route

Once completed select 'OK'



You will now have your new planned production order with the correct information in it.



The order has been estimated and scheduled based on the information you entered. You can now follow the same process as if the system had generated this planned production order.

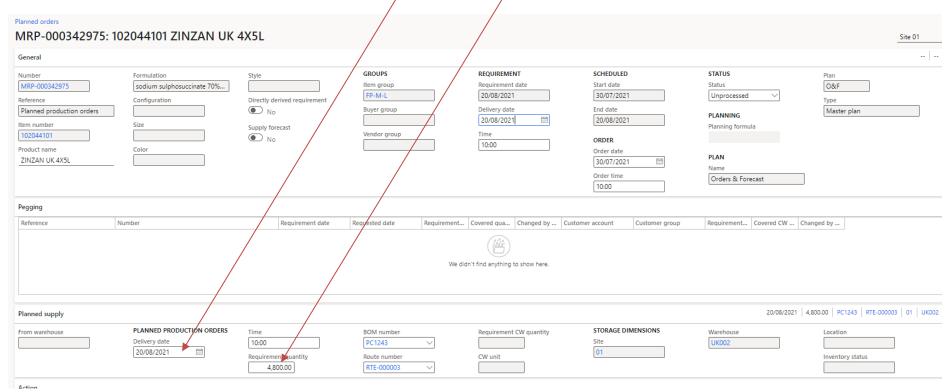
Go to step 1.2.1 and follow the same steps to check bottlenecks and approve or firm your production order.

If you do not approve or firm this production order it will not be visible after master planning runs again as this order was not generated by demand in the same way a system planned order is created.

1.4. Amending a Planned Production Order

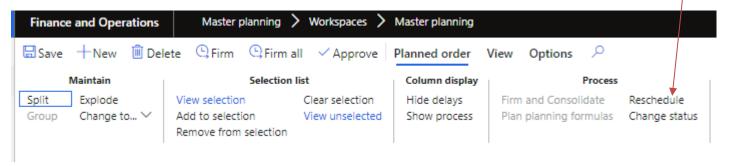
If you need to change some data in your planned production order such as dates or quantity you will need to re-schedule it.

Make the changes you need either by changing the delivery date or the quantity.

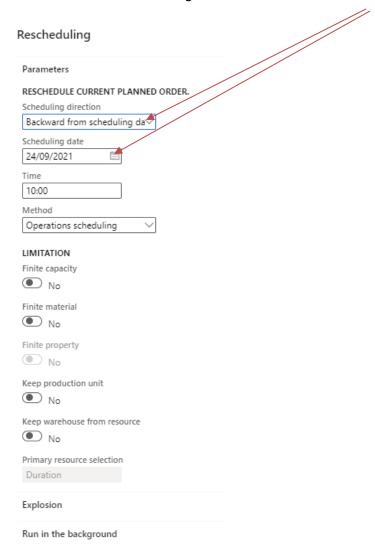




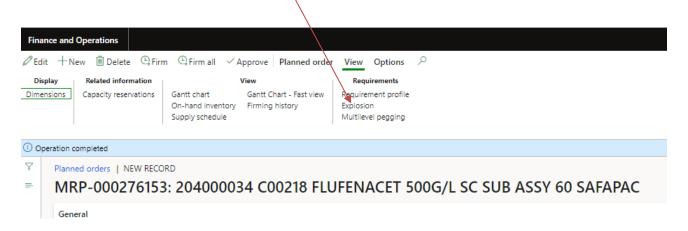
To re-schedule based on your updated information go to the planned order tab and select 'Reschedule'.



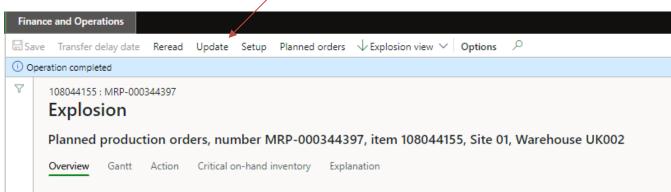
In the planned order scheduling you don't get the 'backward from delivery date option' so here it is advisable to select the direction as 'backward from scheduling date' and then enter the delivery date (desired end date of production) as the scheduling date.



Once rescheduled you can check the explosion screen for bottlenecks to production.



To ensure the new scheduling date is applied in the explosion view you need to select 'Update' and then following the process again from step 1.2.1



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If you choose to approve but not firm this planned order, you must save it after approving.