Purchase Orders – Dates and its Calculations

Activity: To study various dates in Purchase order and how the dates are calculated. When one of the date is changed changed before GR and also after GR, how it will reflect on other dates.

Data: NEQ 100

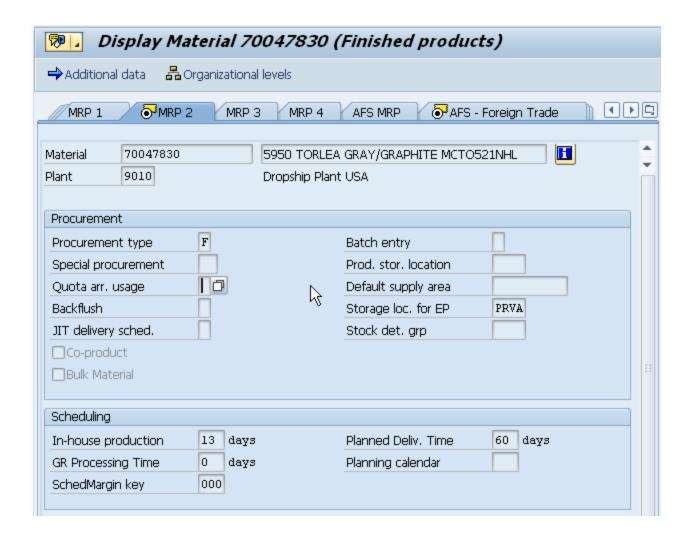
Plant - 9010

Material – 70047830 Vendor - 202666

In the Material Master,

a) Planned delivery time is maintained as 60 days

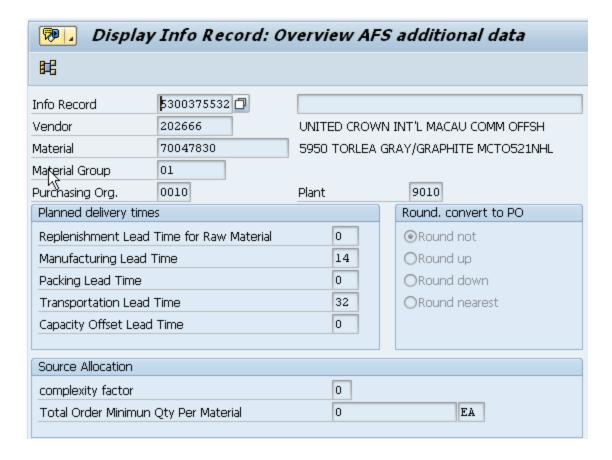
b)GR Processing time - 0 days



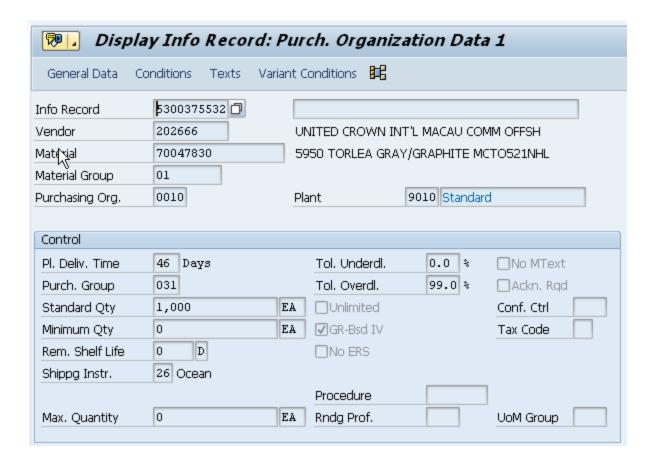
In the Info record,

The Planned delivery time - 46 days Manufacturing Lead time - 14 days Transportation Lead time - 32 days

Screen A



Screen B

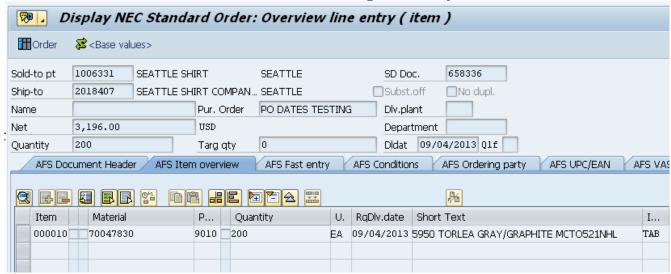


Scenario 1 - Before GR

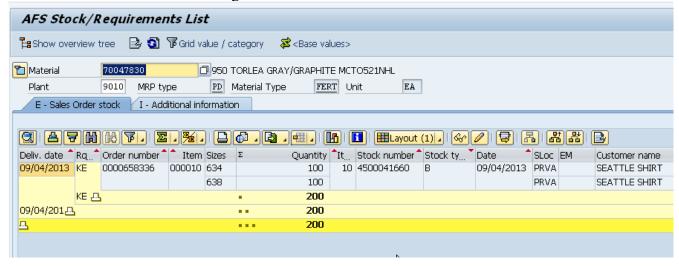
Case1: delivery date is not changed after PO creation

Refer to PO # 4500041660 created using Sales Order 658336 which is having delivery date 09/04/2013

We have a Sales Order 658336 for above material having the delivery date as 09/04/2013



We created a Purchase Order through MRP

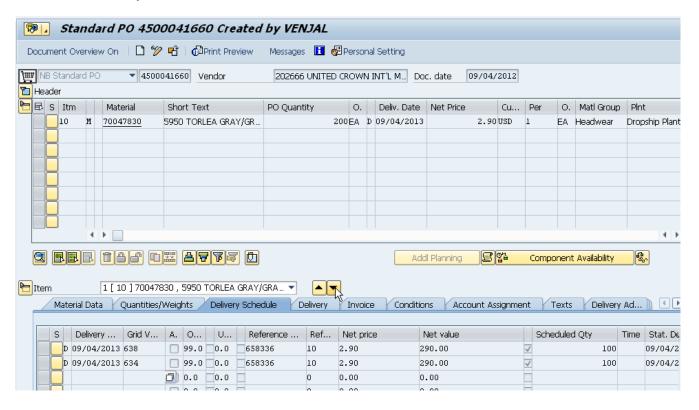


The following dates in PO have arrived in the document as follow:

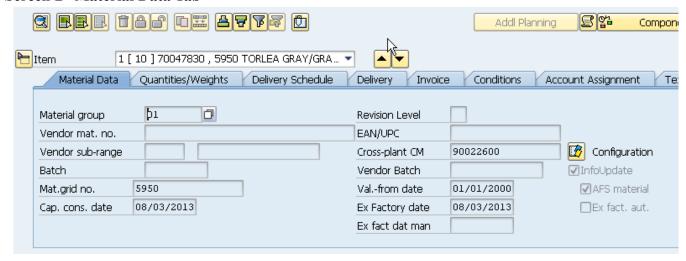
- a) **Delivery Date**: 09/04/2013 This one is arrived from the Sales Order delivery date
- b) Stat. Deli date: 09/04/2013 is same as Delivery date
- c) **Receipt date**: -09/04/2013 This one is calculated by adding GR Processing Time (working days) to delivery date (09/04/2013). Here the GR Processing time is NIL
- d) **Ex-Factory date**: 08/03/2013 is got by subtracting Transportation Lead time 32 days to Delivery date in the PO (09/04/2013)
- e) Capacity .Consumption Date : 08/03/2013 is same as Ex-factory Date

Refer below screen shots for PO details

Screen A – Delivery Schedule Tab



Screen B- Material Data Tab



2) Case 2: When delivery date is changed after PO creation,

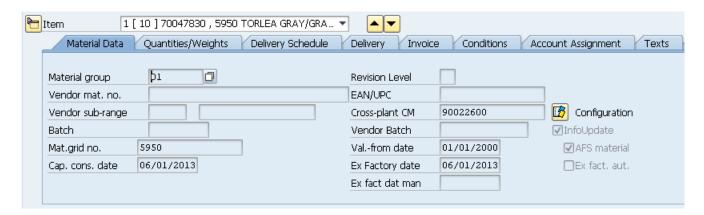
Refer PO # 4500041661

This PO is created with reference to a Sales Order 658337 having the delivery date of 07/04/2013 to the Customer

On creation of PO, the dates are as follow:

- 1) Delivery date: 07/03/2013 it is picked from Sales order
- 2) Receipt date: 07/03/2013 it is calculated by adding GR Processing Time to Delivery Date
- 3) Capacity Consumption date: 06/01/2013 is derived by subtracting the Transportation Lead Time 32 days (from Info Record)
- 4) Ex-Factory date: 06/01/2013 is calculated same as Capacity Consumption Date

Screen-A – Material Data Tab



Screen B- Delivery Schedule Tab

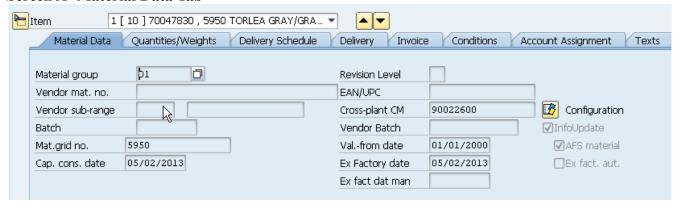


For the same PO, when the Delivery Date is changed from 07/03/2013 to 06/03/2013 30 days

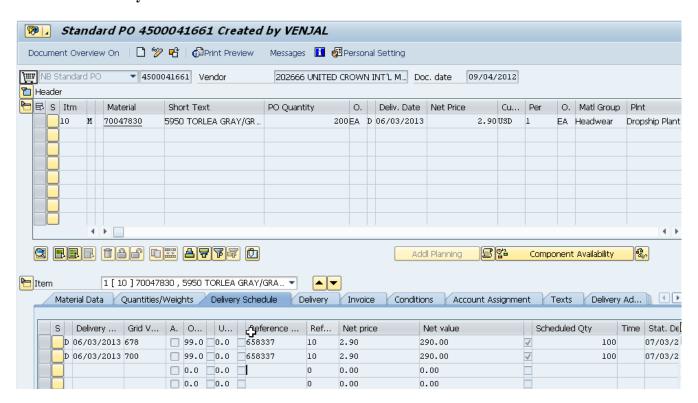
Following dates are effected

- 1) Receipt date 06/03/2013 earlier is was 07/03/2013
- 2) Capacity Consumption date -05/02/2013 earlier it was 06/01/2013
- 3) Ex-Factory Date 05/02/2013 earlier it was 06/01/2013.

Screen A- Material Data Tab



Screen B- Delivery Schedule Tab



Scenario 2: After GR

Here we have considered a PO for which GR receipts has be completed.

The PO # 4500041662 is created with reference to Sales Order # 658338 which is having the delivery date for customer as 09/04/2013

We changed the Delivery Date in the PO after the GR Receipts is done and found that the Ex-Factory Date also changes by same number of days by which Delivery date was modified.

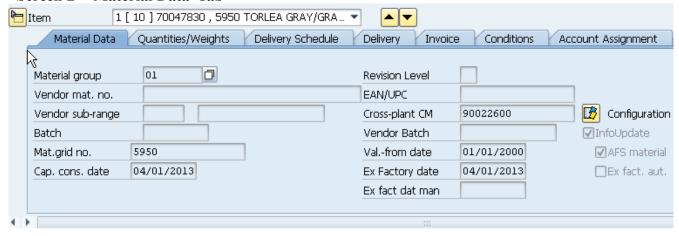
Please refer to below PO #4500041662 - Whose GR has been done

Initially for PO # 4500041655 after GR was done by none of the date is changed in the PO

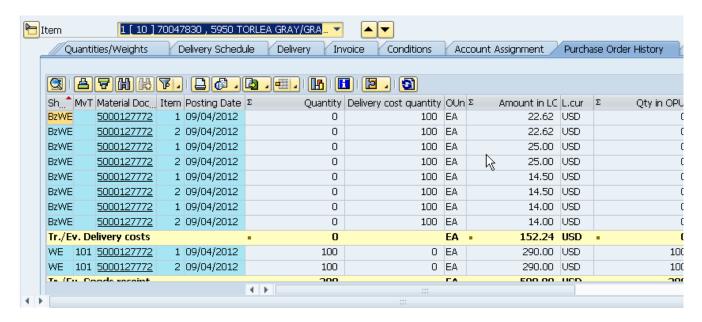
Screen A- Delivery Schedule Tab



Screen B – Material Data Tab



Screen C: PO History Tab



Now for the above PO we tried to change the Delivery Date in the PO for which GR was done and found that the Other dates also change with respect to Delivery Date by same number of days.

The Delivery Date was changed to 01/03/2013 from 05/03/2013

The other dates also changed:

The latest Requirement Date is now 01/03/2013

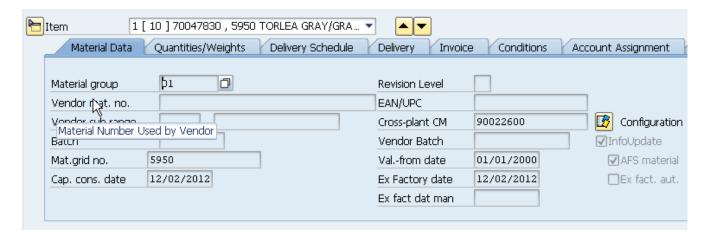
The Ex-Factory Date also changed from 04/01/2013 to 12/02/2012 ie by 30 days

The Capacity Consumption Date also changed in same manner.

Screen A – Delivery Schedule Tab



Screen B- Material Data Tab.



Conclusion:

- 1) The delivery date is calculated by considering the Planned Delivery Time (Info Record)
- 2) The Ex-Factory Date is calculated by substracting the Transportation Lead time to the Delivery Date in the PO.
- 3) The Ex-Factory Date also changes by the same number of days if Delivery Date is changed.
- 4) The Receipt/Requirement Date which is in the Delivery Schedule Tab the sum of the Planned Delivery days (Info Record) to GR Processing Time (this one is picked from Material Master and it is the number of working days)