SAP Ariba

SAP SCC Supplier Managed Inventory (with Replenishment Order)

Supplier Training Guide

Rev, 7th Sep 2022

Public

ABB

THE BEST RUN SAP

Agenda

SMI with Replenishment Order
In this Chapter You Will Learn About …

… what is Supplier Managed Inventory from a process perspective

… process overview

… the different modes of process automation

Supplier Managed Inventory

Replenishment Order – Process Introduction

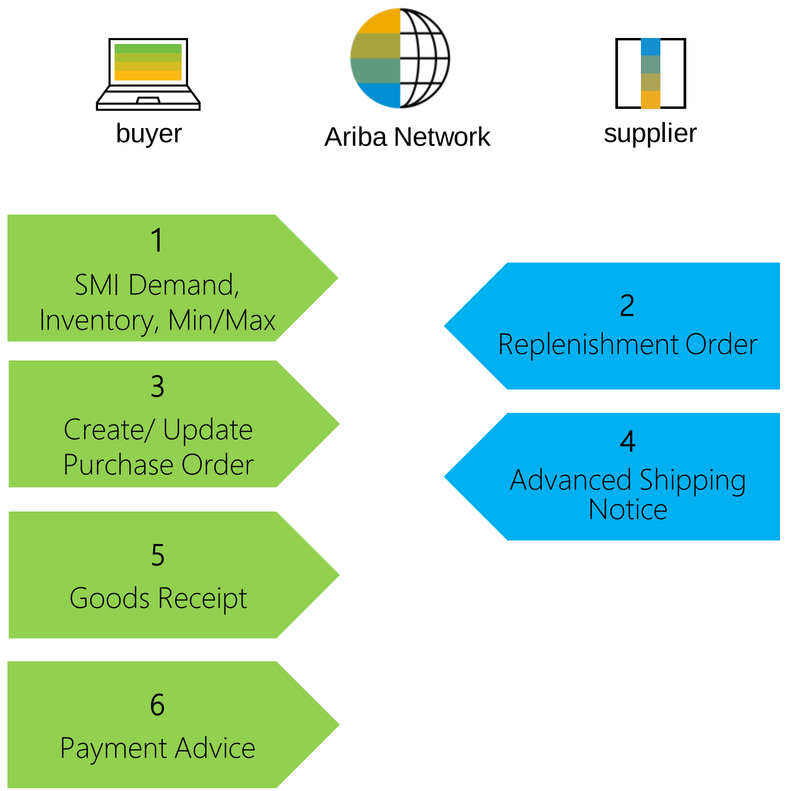
SMI provides foundational capability for supply chain collaboration between Buyers and Suppliers in such a way that Buyer shares inventory and (gross) demand information. Buyer can provide as well established Min/Max stock levels and days of supply for fulfillment consideration.

In the scenario with Replenishment order the suppliers create a Sales Order based on buyers demand. This then is reflected as a replenishment order in SCC and automatically creates a corresponding PO in the Buyers SAP ERP system.

Supplier Managed Inventory

Replenishment Order – Overview 1

1. The Buyer shares on Ariba Network Gross Demand, Inventory, Min and Max from the ERP.
2. The supplier reviews the projected stock and reflects their planning decision by entering a replenishment order to meet demand requirements and the agreed stocking policy.
3. Replenishment order will create a PO in the buyer's ERP, which will be sent to the network.
4. At the time of dispatch, the supplier creates an ASN.
5. Following receipt in the buyer`s ERP, the goods receipt status is updated on the network.
6. The supplier will be paid accordingly.



Different modes of Integration/ Automation

Ariba allows suppliers to work in different modes.

- **Portal:** The Supplier works online through the Web Browser.
- **Excel:** You can manage your Replenishment Orders using Excel Upload/ Download function.
- **Full System Integration:** Ariba allows to electronically integrate with the network.

SMI with Replenishment Order User Interaction

In this Chapter You Will Learn About …

… how to navigate in AN supplier account

… how to manage replenishment orders

… how to manage replenishment orders using Excel

… how to manage shipping and receiving as part of SMI process

Key Steps

Planning Collaboration

- Overview
- Line Item Details
- Main Screen Content (with Inventory Level)
- Days of Supply Planning
- Main Screen Content (with Days of Supply)

Portal User Interaction

- General Considerations
- Manage Replenishments
- Manage Replenishments Using Excel
- Review Replenishments
- Cancel Replenishments

Shipping and Receiving

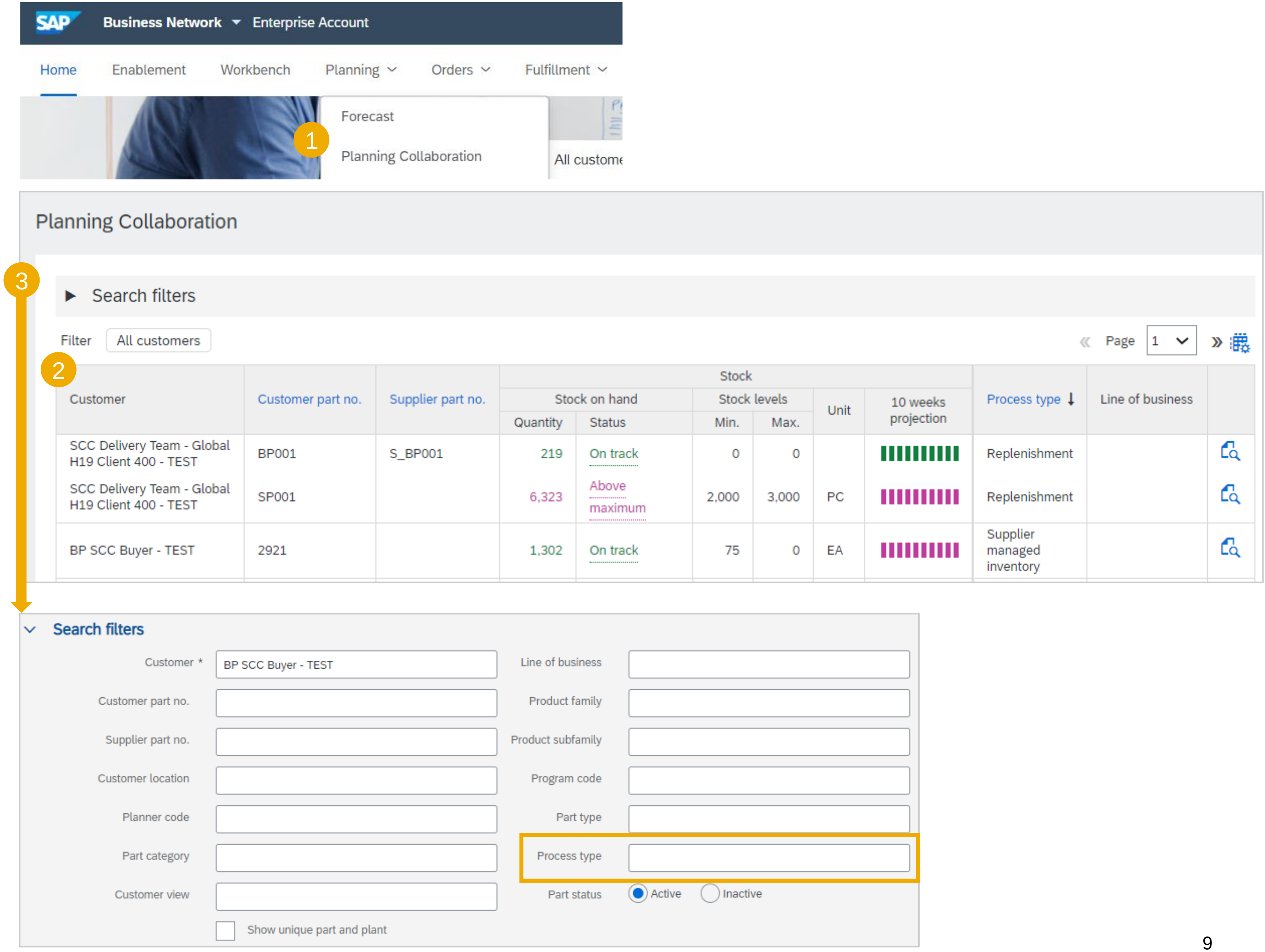
- General Consideration
- Review Created ASN / Shipping Notification
- Review Created Goods Receipt

Planning Collaboration

Overview – Main Screen

From the Homepage:

1. Click on **Planning/ Planning Collaboration**.
2. Screen presents the overall status for all selected materials.
3. Search filers help to identify the right item. Expand the section and enter specific search criteria. Specify process type – **Replenishment**.



Planning Collaboration

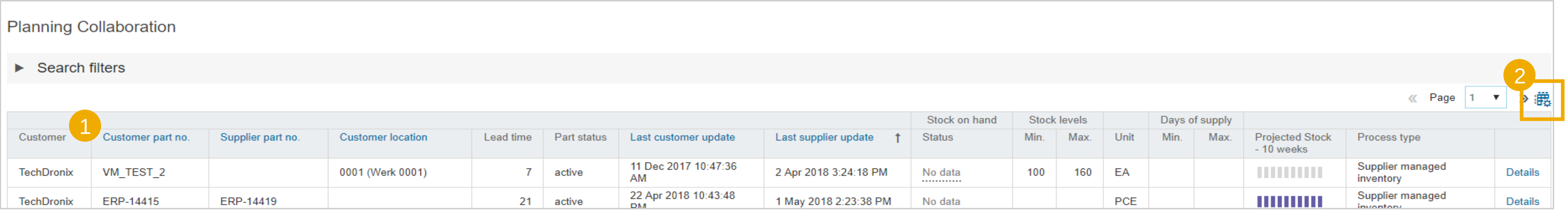
Overview - Search Filters Description

Field	Description
Customer	Customer identification.
Customer Part Number	Customer's material number.
Supplier Part Number	Vendor's material number.
Customer Location	Customer Plant.
Planner Code	Customer planner identification.
Show Unique Part and Plant	Once checked, the result screen will show key figures for both supplier managed inventory and forecast data.
Part Category	Part Category as aligned with the customer.
Line of Business	Line of Business as aligned with the customer.
Product Family	Product Family as aligned with the customer.
Product Sub-Family	Product Sub-Family as aligned with the customer.
Program Code	Program Code of Business as aligned with the customer.
Part Type	Part Type as aligned with the customer.
Process Type	Specifies whether the part is using Replenishment Order for SMI (can be combined with Forecast).
Part Status	Specifies if the part is active or inactive.
Customer View	Buyers are allowed to create views, referred to as custom views, for planning processes and set conditions for their display

Planning Collaboration

Overview - Columns

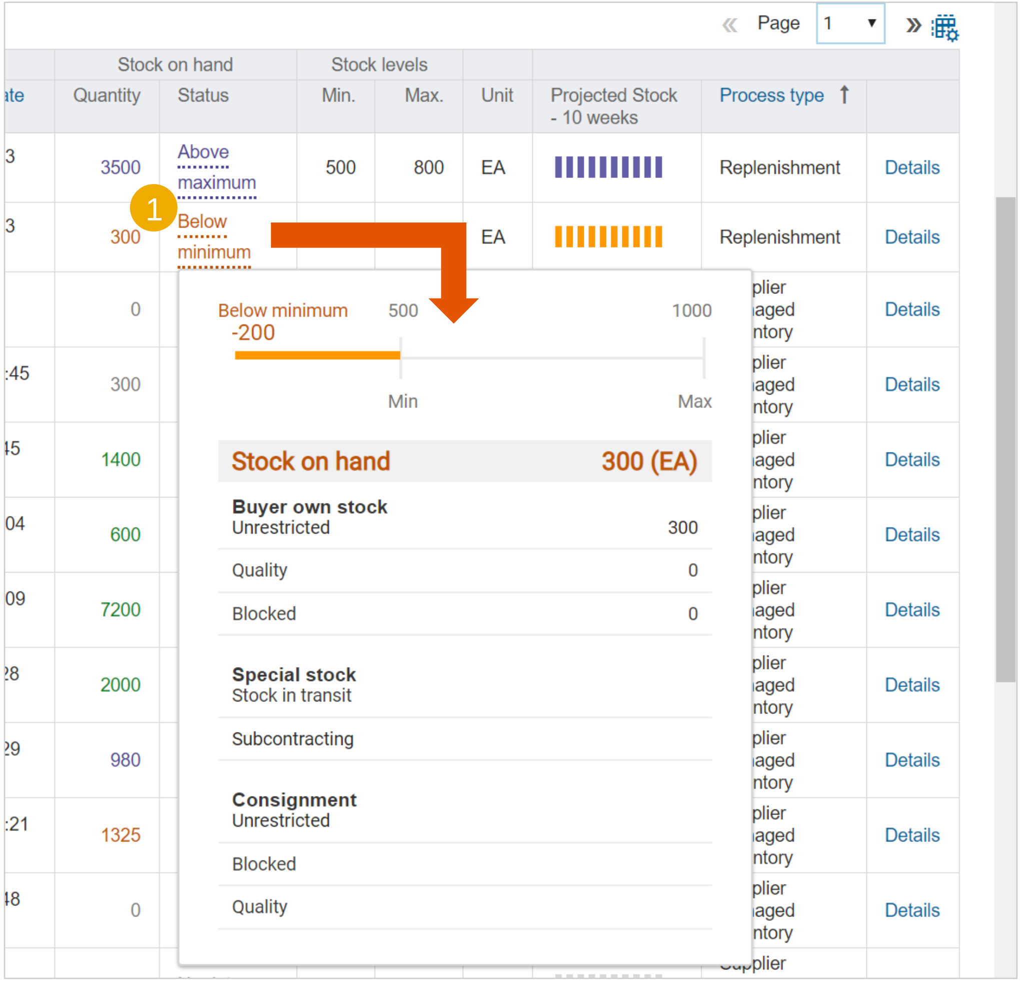
1. You can sort the columns by clicking on any header.
2. You can hide / display the report columns by clicking the configure icon.

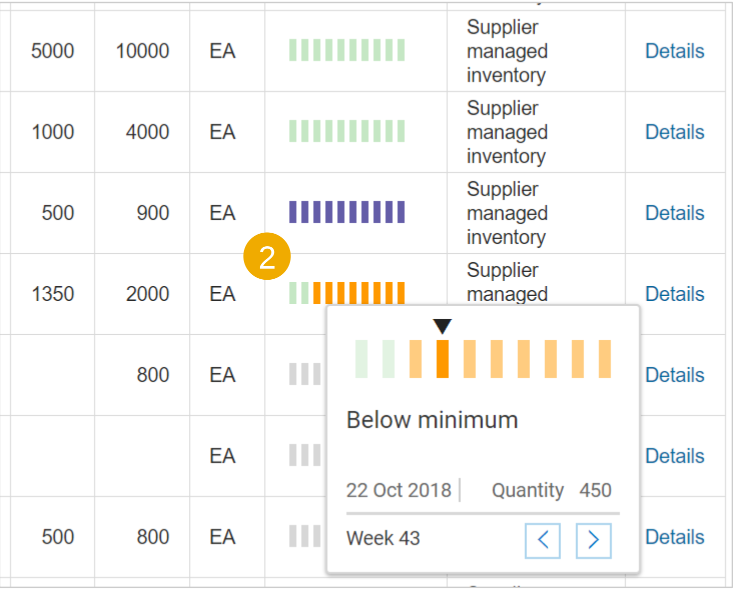


Planning Collaboration

Overview - Stock Details

1. Click the **Stock on Hand/ Status** (e.g. Below Minimum). Pop-up window will display further details such as:
   - Different stock types transmitted from the buyers ERP or
   - Min / Max Levels
2. Click the **Projected Stock**. Pop-up window will display further details, such as exact stock within a given week (each bar represents a week).

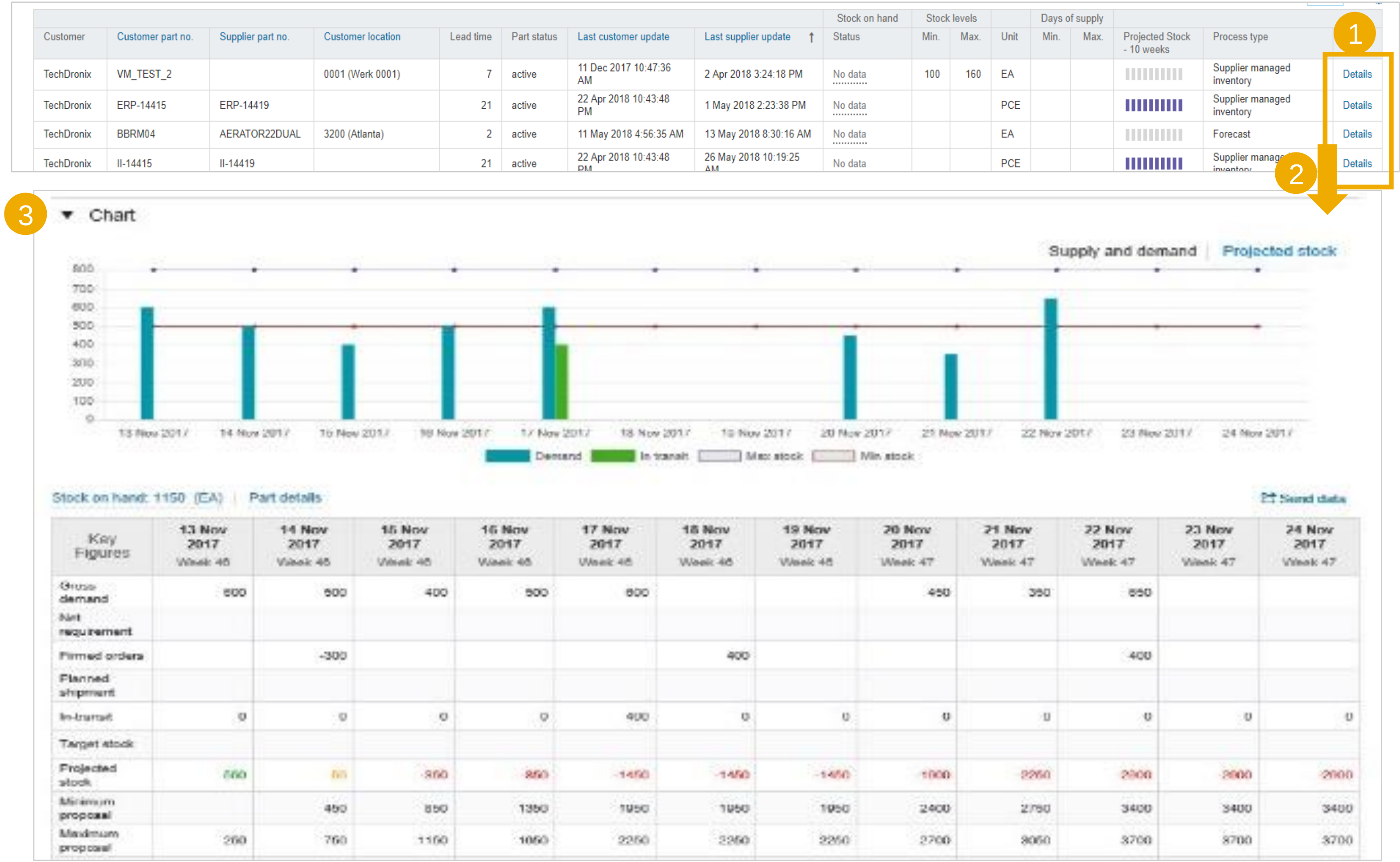




Planning Collaboration

Line Item Details – Main Screen

1. Click **Details** to open the item data report.
2. Item data report is the key for the supplier to plan and review the replenishment of the buyer’s stock.
3. Expand the **Chart** section to view the graphs.



Planning Collaboration

Main Screen Content (with Inventory Levels)

Figure	Description	Source
Gross demand	Forward-looking consumption.	Buyer ERP
Net requirement	Constrained demand based on buyer‘s planning system.	Buyer ERP
Firmed orders	Buyer confirmed orders within the firm zone.	Ariba Network calculation
In transit	Dispatched quantity not yet received at customer.	Ariba Network calculation
Target stock	The Total Target Stock maintained in the buyer system.	Buyer ERP
Minimum proposal	The Minimum Proposal key figure specifies the minimum replenishment quantity required to bring stock up to the defined minimum stock level	Ariba Network calculation
Maximum proposal	The Maximum Proposal key figure specifies the maximum replenishment quantity required to bring stock up to the defined maximum stock level.	Ariba Network calculation
Total shipment	Based on total receipts by the Buyer for each time bucket.	Ariba Network calculation
ASN received	Quantity received by the buyer based on shipments, within each of the user-selected time bucket.	Ariba Network calculation
Order received	Quantity received by the buyer based on orders, within each of the user-selected time bucket.	Ariba Network calculation
Previous planned replenishment	The total quantity of previously saved planned replenishments, within each of the user-selected time bucket.	Ariba Network
Planned replenishment	The editable field where supplier enters replenishment quantity, within each of the user-selected time bucket.	Supplier input
Published replenishment	The total quantity of created replenishment orders, within each of the user-selected time bucket.	Ariba Network
Planned projected stock (RO)	Stock on hand – gross demand + (previous planned replenishment + planned replenishment).	Ariba Network calculation
Published projected stock (RO)	Stock on hand – gross demand + published replenishment.	Ariba Network calculation
Days of supply (RO)	Coverage of (projected) stock in respective time bucket.	Ariba Network calculation
Cancelled replenishment	The total quantity of cancelled replenishment orders.	Ariba Network

Planning Collaboration

Days of Supply Planning 1

Some buyers use **days of supply** instead of stock quantities in supplier-managed inventory. This feature calculates the Minimum inventory and Maximum inventory key figures based on the minimum and maximum days of supply. Inventory quantities calculated from days-of-supply quantities are rounded to the nearest whole number.

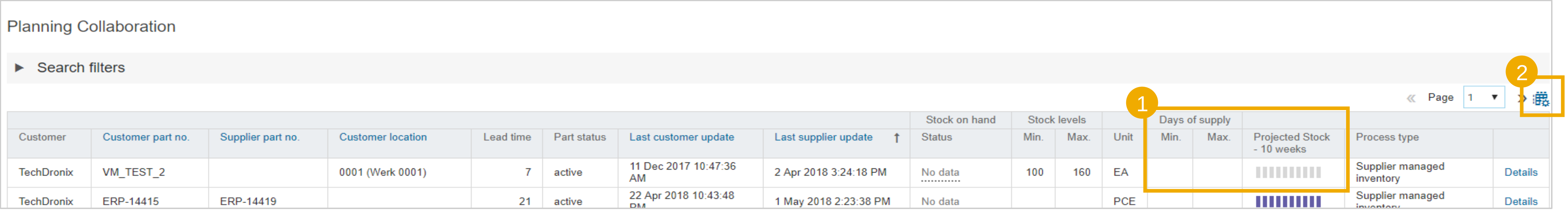
Planning Collaboration

Days of Supply Planning 2

1. On the **Planning Collaboration** page, system now adds **Min. and Max. columns** under a Days of supply heading. These columns are hidden by default.
2. Click the table options icon at the top of the table to change the display settings.

Note:

- For items on the Planning Collaboration page that have days-of-supply quantities and the stock level values are either 0 or empty, the details page uses the Supplier managed inventory days-of-supply view or Supplier managed replenishment days-of-supply view.
- Lines on the chart are changed to indicate the minimum and maximum inventory values, instead of the minimum and maximum stock.
- Key figures Minimum inventory and Maximum inventory are added to the table.
- The formula to calculate the Minimum proposal and Maximum proposal key figures is changed to use values for Minimum inventory and Maximum inventory instead of Minimum stock and Maximum stock.



Planning Collaboration

Main Screen Content (with Days of Supply)

Figure	Description	Source
Gross demand	Forward-looking consumption.	Buyer ERP
Net requirement	Constrained demand based on buyer‘s planning system.	Buyer ERP
Firmed orders	Buyer confirmed orders within the firm zone.	Ariba Network calculation
In transit	Dispatched quantity not yet received at customer.	Ariba Network calculation
Target stock	The Total Target Stock maintained in the buyer system.	Buyer ERP
Minimum proposal	The Minimum Proposal key figure specifies the minimum replenishment quantity required to bring stock up to the defined minimum stock level	Ariba Network calculation
Maximum proposal	The Maximum Proposal key figure specifies the maximum replenishment quantity required to bring stock up to the defined maximum stock level.	Ariba Network calculation
Total shipment	Based on total receipts by the Buyer for each time bucket.	Ariba Network calculation
ASN received	Quantity received by the buyer based on shipments, within each of the user-selected time bucket.	Ariba Network calculation
Order received	Quantity received by the buyer based on orders, within each of the user-selected time bucket.	Ariba Network calculation
Minimum inventory	The sum of the gross demand for the time buckets after current date based on minimum days of supply.	Ariba Network calculation
Maximum inventory	The sum of the gross demand for the time buckets after current date based on maximum days of supply.	Ariba Network calculation
Previous planned replenishment	The total quantity of previously saved planned replenishments, within each of the user-selected time bucket.	Ariba Network
Planned replenishment	The editable field where supplier enters replenishment quantity, within each of the user-selected time bucket.	Supplier input
Published replenishment	The total quantity of created replenishment orders, within each of the user-selected time bucket.	Ariba Network
Planned projected stock (RO)	Stock on hand – gross demand + (previous planned replenishment + planned replenishment).	Ariba Network calculation
Published projected stock (RO)	Stock on hand – gross demand + published replenishment.	Ariba Network calculation
Days of supply (RO)	Coverage of (projected) stock in respective time bucket.	Ariba Network calculation
Cancelled replenishment	The total quantity of cancelled replenishment orders.	Ariba Network

Portal User Interaction
In this Chapter You Will Learn About …

… how to navigate to the screens supplier needs to work with

… how to read the screens

… how to manage the customer stock

Portal User Interaction

General Considerations

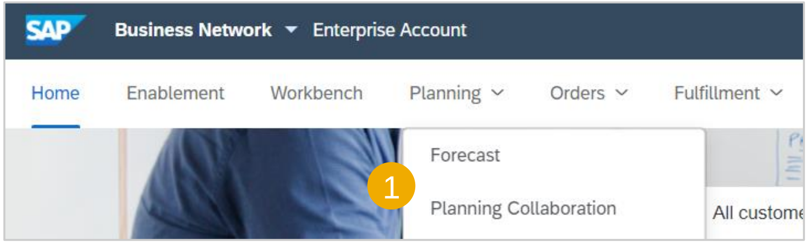
- The outcome of Replenishment process is the creation of the purchase order on behalf of the customer.
- Per planning parameters, inventory levels or days of supply can be used.
- The replenishment order is created based on selected time bucket.
- Available details are aligned and configurable by customer.
- Replenishment order can be cancelled only as a full documents (separate lines cannot be cancelled individually).
- If customer allows, suppliers can share planned replenishment quantities before creating a new replenishment order.
- Customer can define new attribute fields that will be used to provide additional information about planning records. The customers can give the new field a name of their choice. In such case, supplier will be able to see the new customer defined attributes in their Supplier Portal UI.

Portal User Interaction

Manage Replenishments 1

From the Homepage:

1. Click on **Planning/ Planning collaboration**. Using search filters or overview screen specify the process type as ‘Replenishment’.
2. Click on **Details** icon to open the planning grid for process type Replenishment. New window will appear.

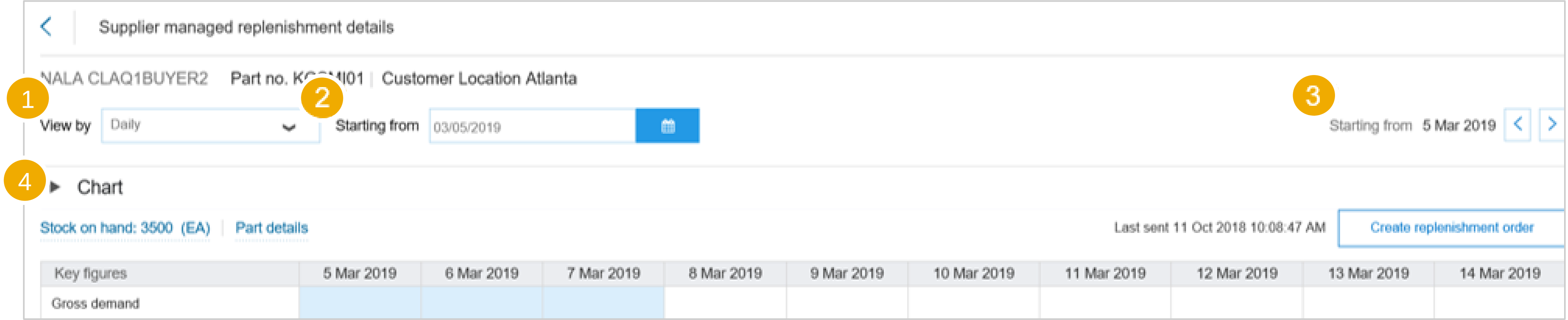


Customer	Customer part no.	Stock: Stock on hand – Quantity	Stock: Stock on hand – Status	Stock: Stock levels – Min.	Stock: Stock levels – Max.	Unit	10 weeks projection	Process type	Line of business	2
SCC Delivery Team - Global H19 Client 400 - TEST	BP001	219	On track	0	0			Replenishment		
SCC Delivery Team - Global H19 Client 400 - TEST	SP001	6,323	Above maximum	2,000	3,000	PC		Replenishment		

Portal User Interaction

Manage Replenishments 2

1. Select **View by** in order to choose between different aggregation modes (Daily, Weekly, Monthly, Quarterly, Yearly). The key figures will be summed accordingly.
2. Specify the date in the **Starting from** field.
3. Press the arrows to navigate through the time periods.
4. Press **Chart** if you want to review the graphs.



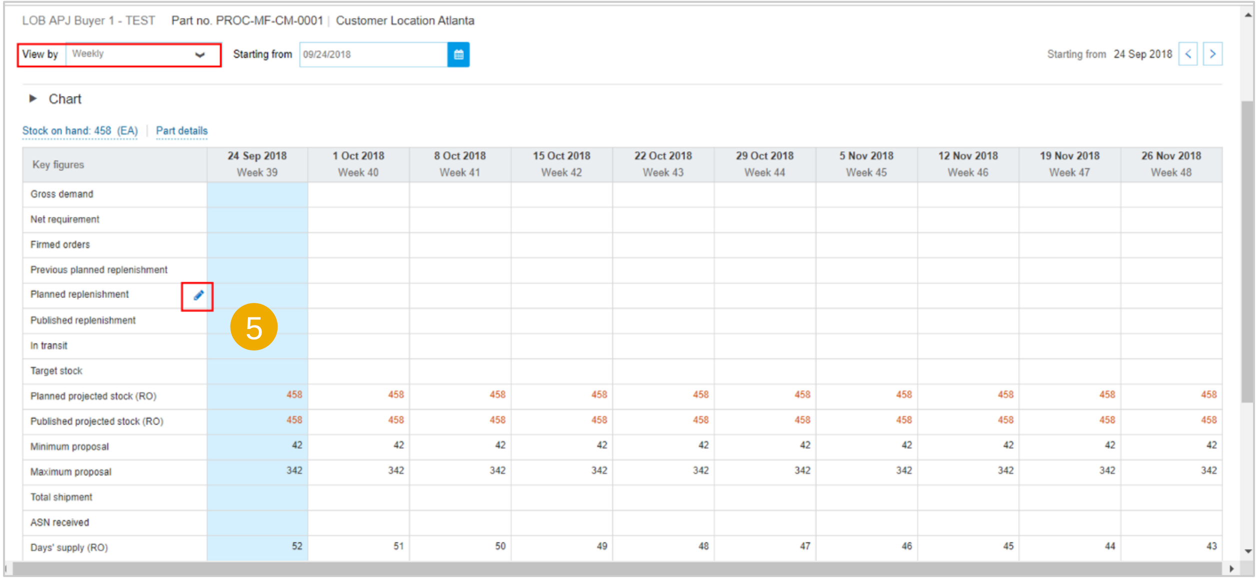
Portal User Interaction

Manage Replenishments 3

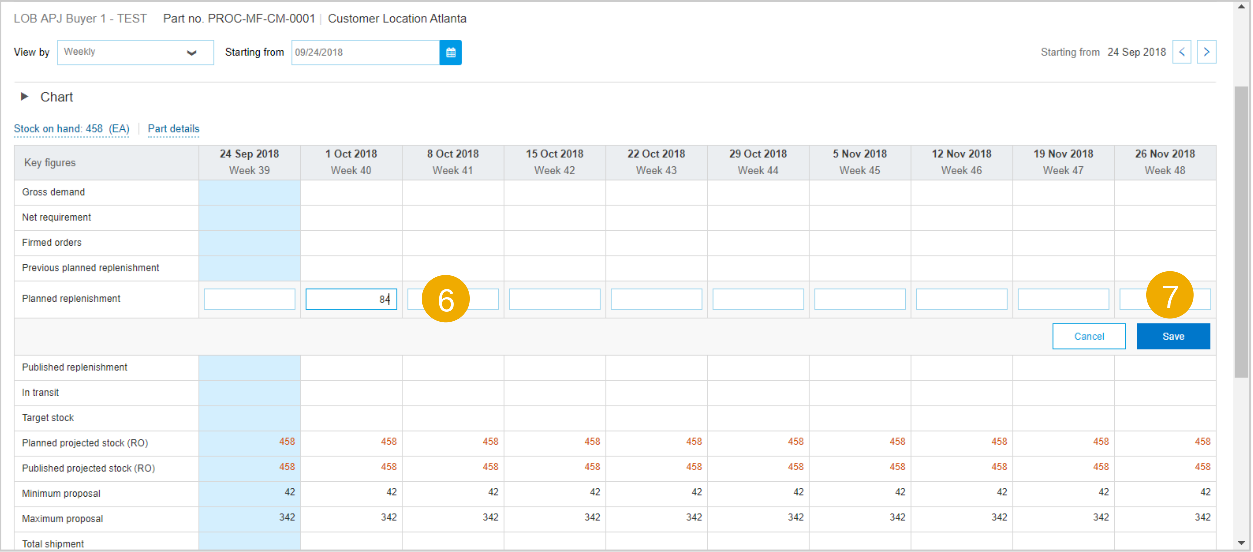
5. Click **pencil** icon to get into edit mode.

Note:

- Depending on the Buyer settings for the replenishment view the pencil symbol appears in either the weekly or daily view. If not visible the user has to switch between the time bucket views.
- The blue background color indicates the lead time for this material.



6. Supplier enters **planned replenishments** in order to get projected inventory within the min/max levels (min/max proposals simplify the determination of quantities).
7. Pressing **Save** button will trigger the recalculation of projected stock (and change colors if status changes). Supplier might want to enter multiple planned replenishments in different time buckets if needed.



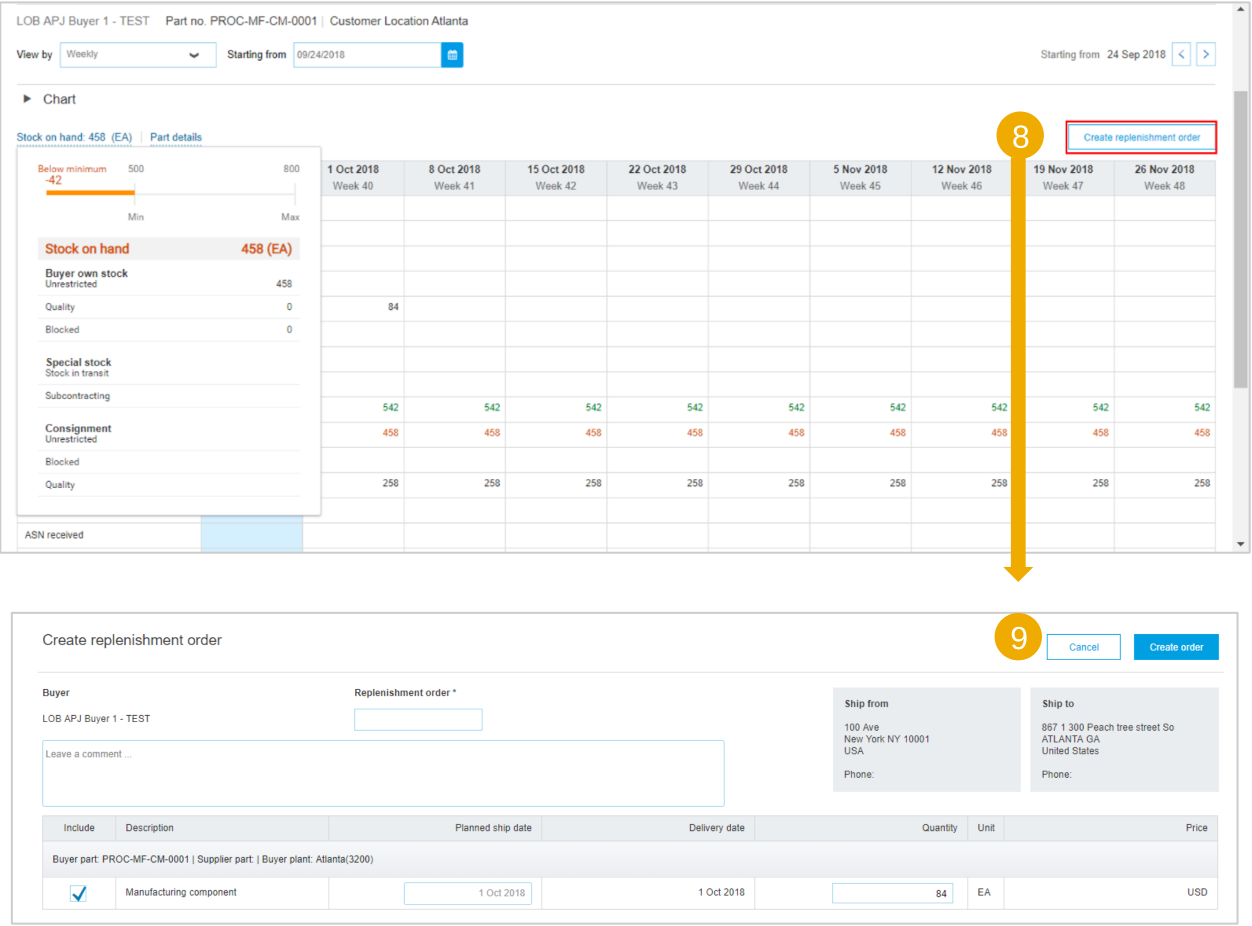
Portal User Interaction

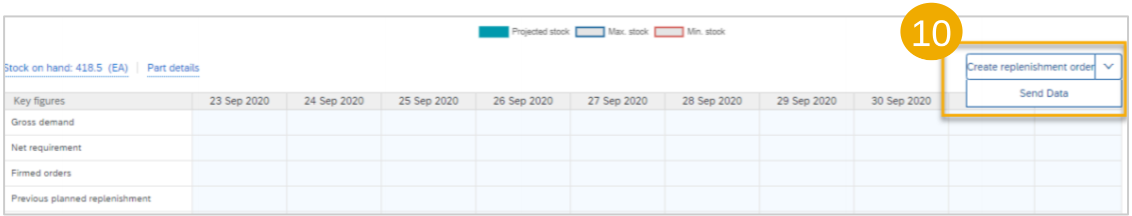
Manage Replenishments 4

8. Clicking the button **Create replenishment order** passes the entered replenishment data over to the replenishment order (RO) screen.
9. Here individual planned replenishment quantities in the different time buckets will result in a separate line item of the replenishment order and can be selected/deselected here before creating the RO.
10. If customer allows, you will be able to share planned replenishment quantities before creating a new replenishment order. Dropdown with **Send Data** option will appear.

Note:

- Replenishment Order button only appears if planned replenishment exists.





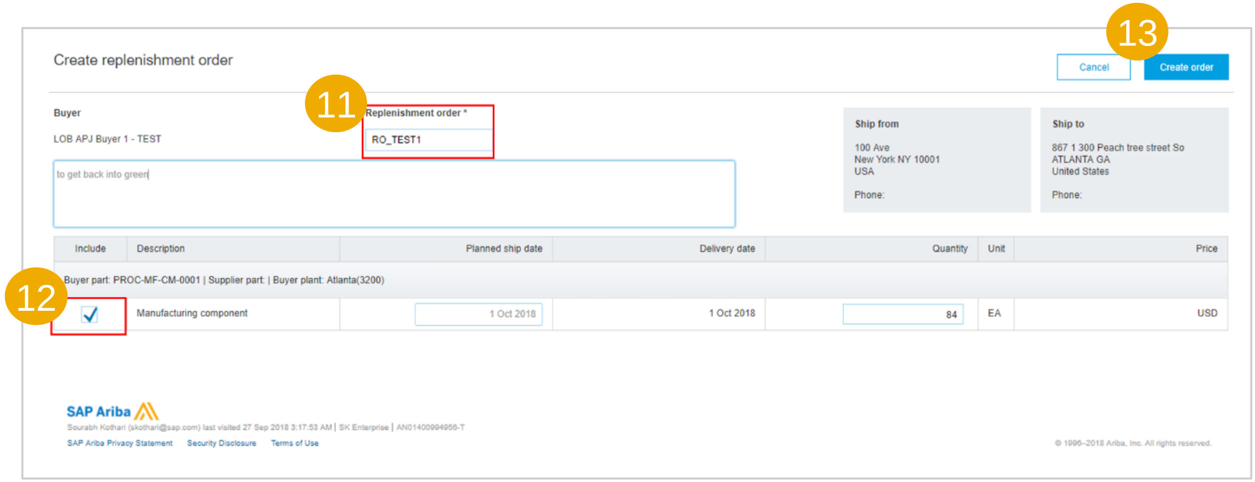
Portal User Interaction

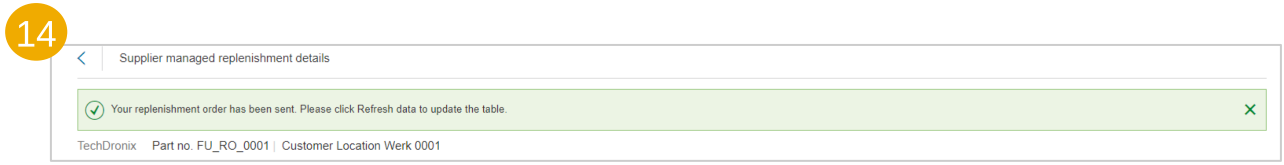
Manage Replenishments 5

11. Replenishment order field is a mandatory key field to identify the RO & text box is optional
12. Now the order can be created by pressing the **check flag** and
13. clicking **Create order** button in the upper right corner.
14. This triggers the transfer of the data to the ERP system in the background.

Note:

- Quantity, date and price value can be changed.





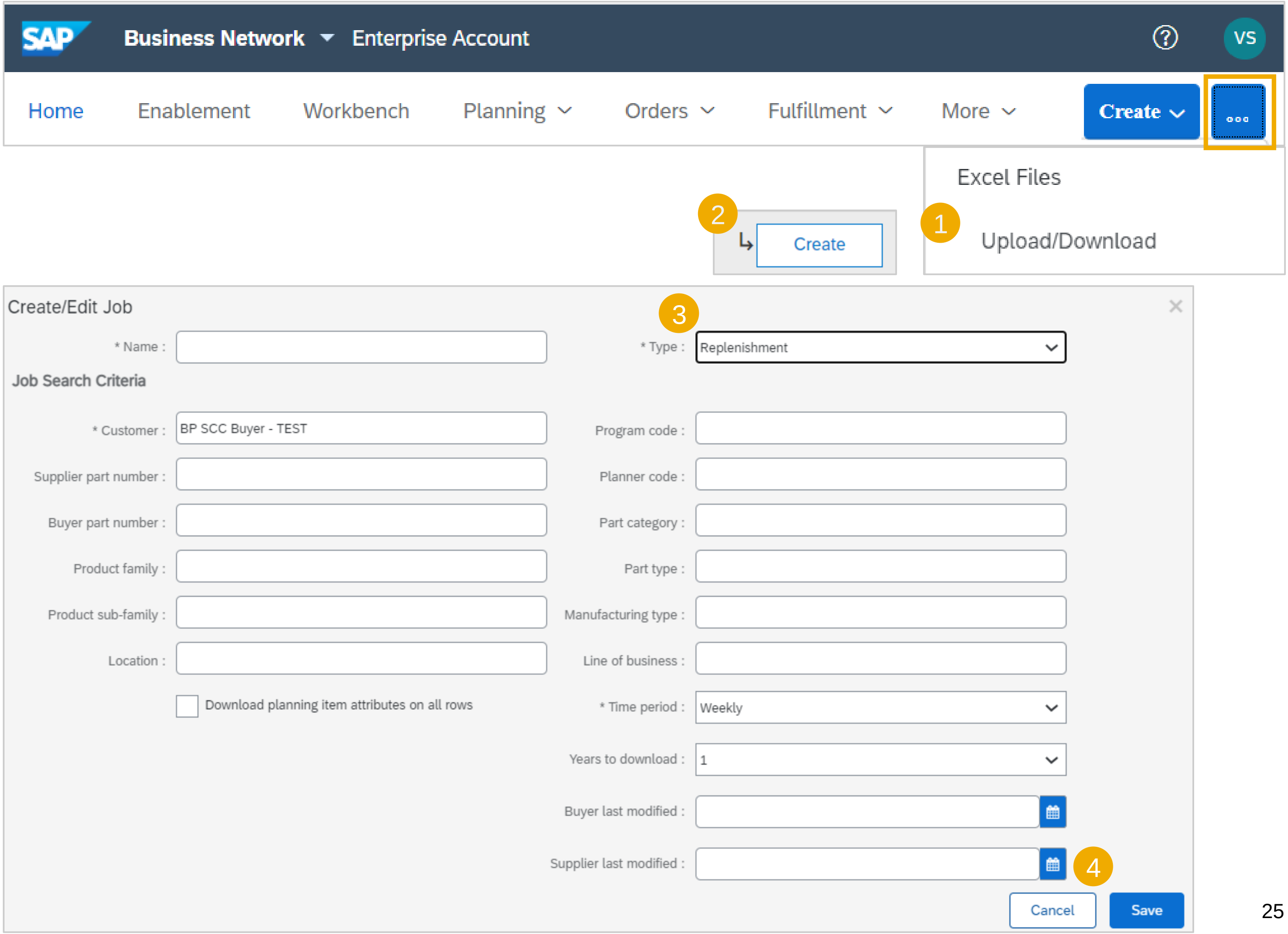
Portal User Interaction

Manage Replenishments Using Excel – Create a Report 1

Excel Download/ Upload functionality allows suppliers with large number of materials to manage their replenishments in a more efficient way.

From the Home page:

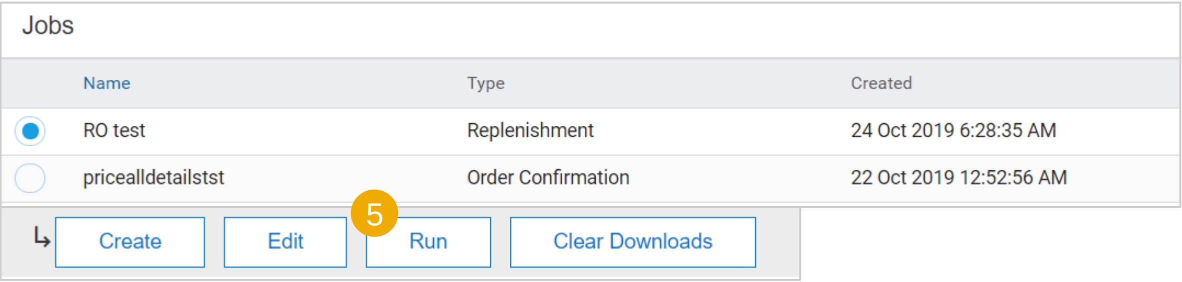
1. Click button and select **Upload/Download** from the drop down.
2. In the Jobs sub-tab click **Create.**
3. In the pop-up select job-type **Replenishment.**
4. Fulfill search criteria and all mandatory fields and click **Save**.



Portal User Interaction

Manage Replenishments Using Excel – Create a Report 2

5. Select created Job from the list and click **Run**. You will be transferred to the **Downloads** screen.
6. If report status is **Queued**, click **Refresh Status** in the bottom of the screen, until the status is changed to **Completed**.
7. Download the Job by clicking the icon in the File column and save the file on your computer.



Portal User Interaction

Manage Replenishments Using Excel – Edit the Report

1. Suppliers can edit the information in the downloaded Excel **for Replenishment order No.**
2. and **Planned Replenishment quantities**. The fields are highlighted in blue.
3. Suppliers are able to edit the data and enter details with **daily time buckets**.

Minimum days of supply	Maximum days of supply	Unit	Replenishment order No.	Unit price	Currency	Planned acceptance days	Key figures	3 Jul 2019	4 Jul 2019	5 Jul 2019	6 Jul 2019
4	7	EA	34RO	2.56	USD		Gross demand				
							Net demand				
							Order				
							Previous Planned Replenishme				
							Planned Replenishment	19			
							Published Replenishment				
							In transit	0	0	0	0
							Target stock				
							MINIMUM_INVENTORY	0	0	0	0
							MAXIMUM_INVENTORY	0	0	0	0
							Projected stock	400	400	400	400
							Published Projected Stock	400	400	400	400

Note:

- Suppliers need to submit an RO with at least one time bucket populated within the planning horizon of that item's buyer settings. If not, the item fails.
- For Replenishment order no. use names with no more than 12 alphanumeric characters.

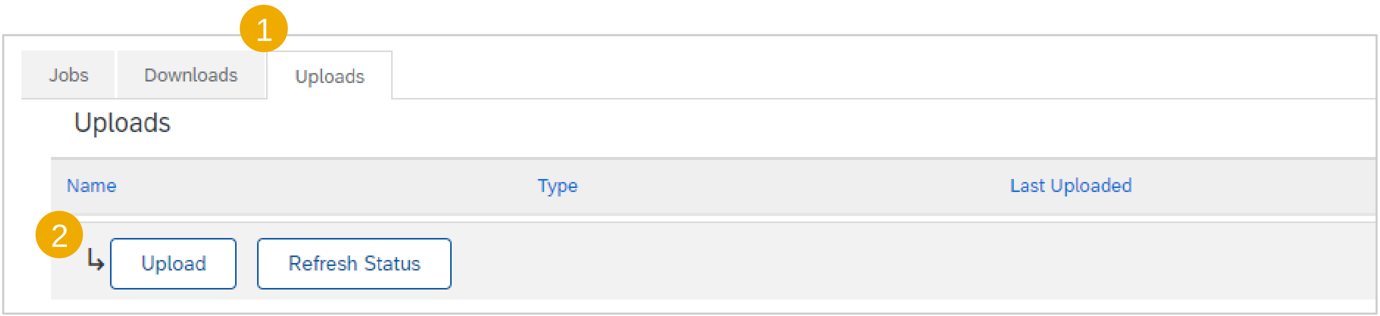
Portal User Interaction

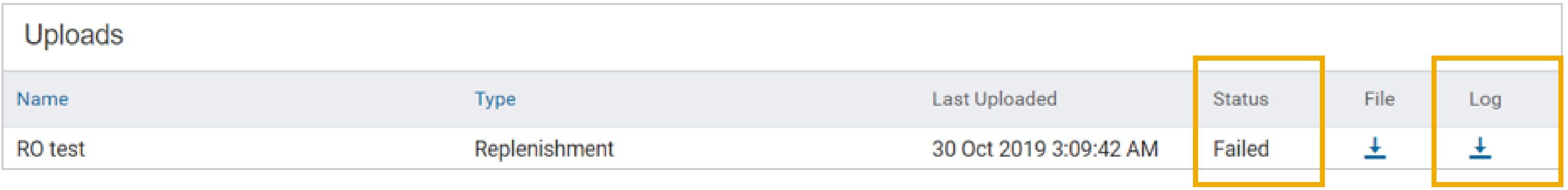
Manage Replenishments Using Excel – Upload the Report

From the Upload/Download screen:

1. Click on **Uploads** sub-tab.
2. Press **Upload** button. Pop-up window will appear.
3. Enter a meaningful job name and select Type **Replenishment.**
4. Browse / Choose / Open file → select required excel sheet.
5. Press **Upload** button. The status will notify about the success of the upload.

Note: If upload **failed** or was **completed with errors**, download the Log and fix the errors. Then, reupload the file following the steps described above.



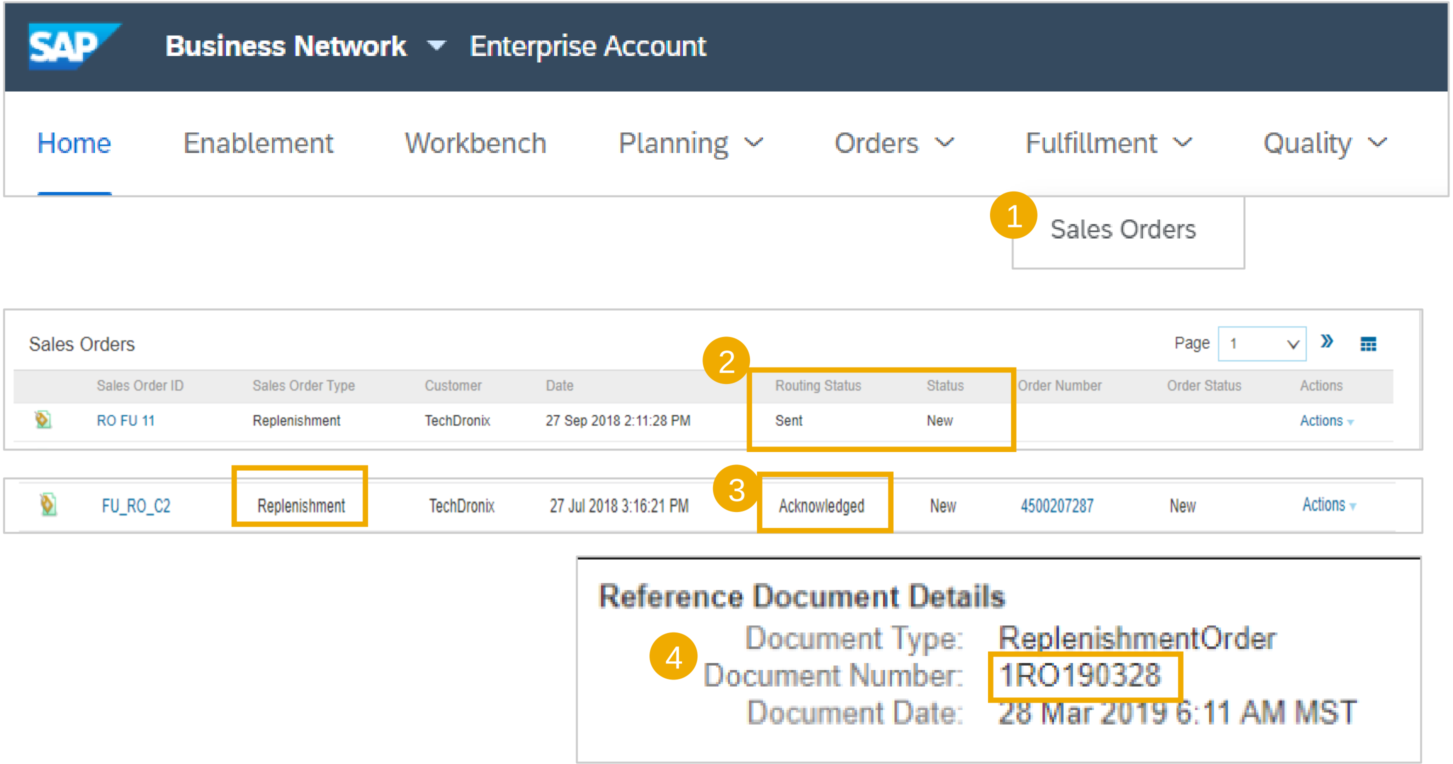


Portal User Interaction

Review Replenishments

From the Homepage:

1. Click on **Fulfillment/ Sales Orders**.
2. As long as the corresponding PO has not been sent back from ERP and linked to the RO the routing status is **Sent** and Status **New.**
3. Once the PO is received and associated with the Replenishment Order the Routing status is switched to **Acknowledged** with the linked PO visible in column Order Number.
4. The reference to the replenishment order is specified in the subsequent purchase order header.



Note: From here **Order Collaboration** flow can be followed.

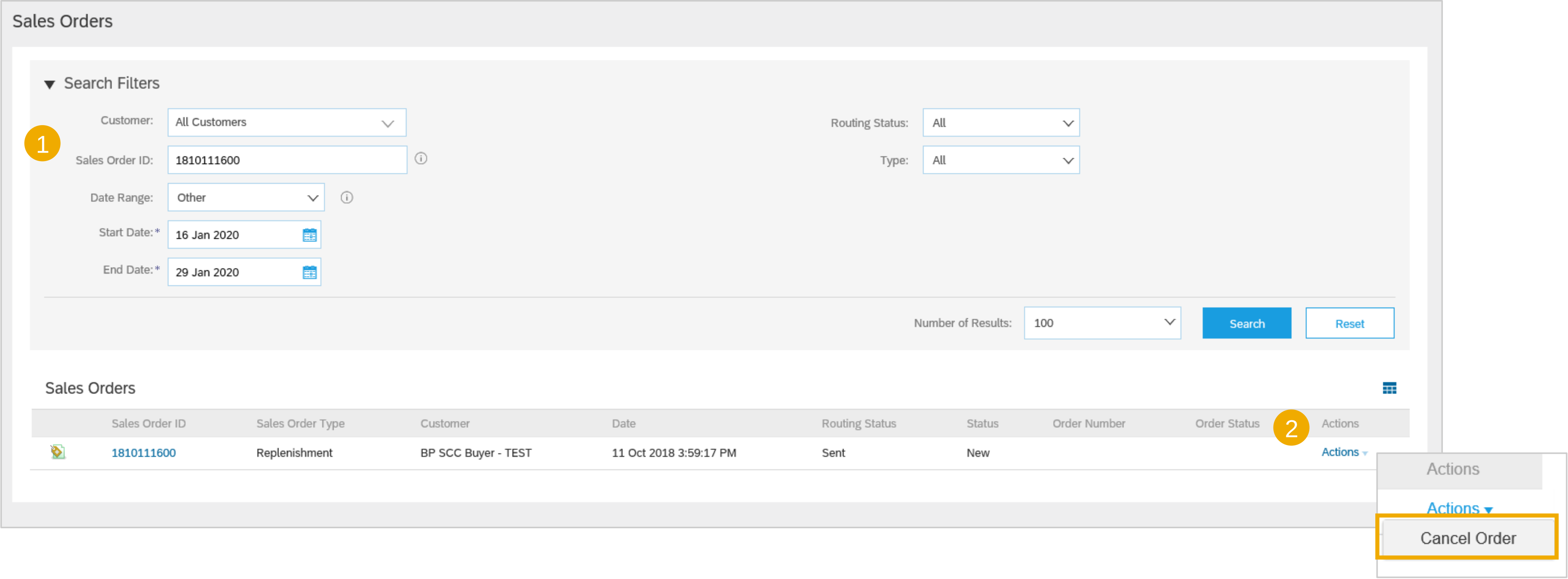
Portal User Interaction

Cancel Replenishments 1

Replenishment order can be cancelled only as a full documents (separate lines cannot be cancelled individually).

From the Sales Orders Screen:

1. Use search filters to identify the desired replenishment order (Sales Order ID).
2. Once order appears below, click **Actions** and choose **Cancel Order** from the dropdown.

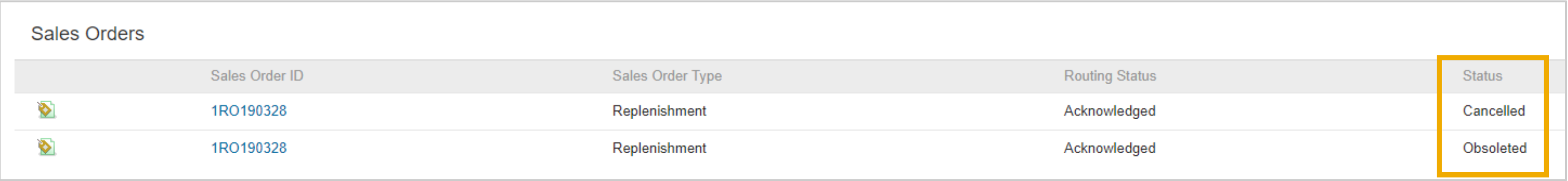


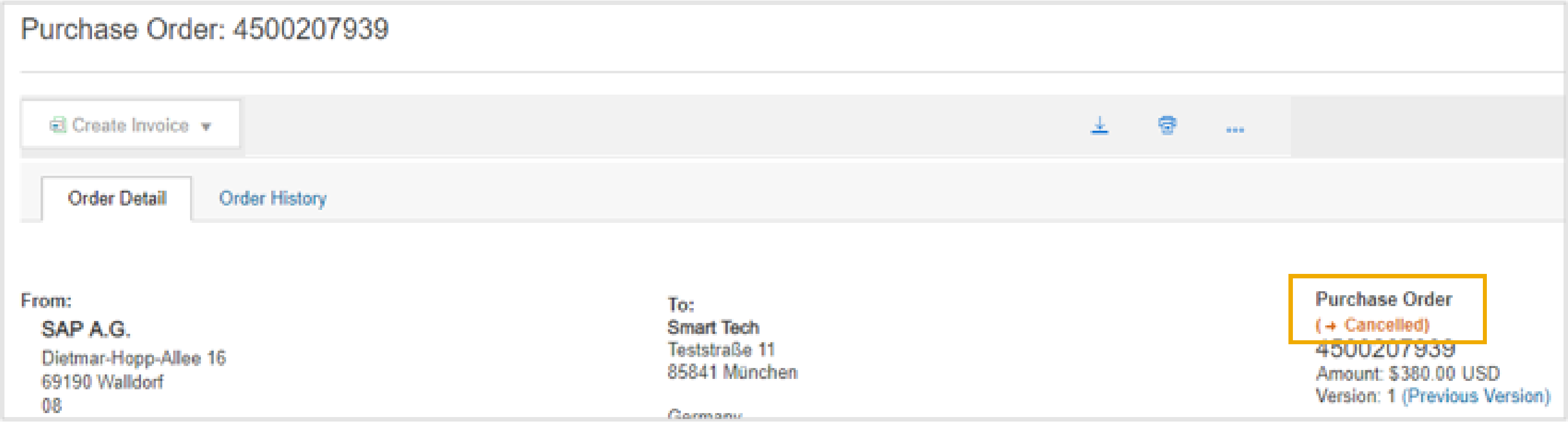
Portal User Interaction

Cancel Replenishments 2

Status updates can be reviewed from the Sales Orders screen:

- Go to **Outbox/ Sales Order** for Replenishment Order
- Go to **Orders/ Orders & Releases** for subsequent purchase order





Shipping and Receiving in Supplier Managed Inventory
In this Chapter You Will Learn About …

… where to find the ASN information in SMI

… where to find Goods Receipt information in SMI

Shipping and Receiving in Supplier Managed Inventory

General Considerations

An Advance Shipping Notifications (ASN) is typically created immediately prior to, during or immediately following the physical dispatch of goods from the vendor’s premises.

The electronic submission of an ASN via the Ariba Network results in the creation of an Inbound Delivery in the customer’s SAP ECC or S/4 HANA system. This document provides date and quantity visibility to the customer’s MRP planner, supports receipt planning and provides the basis for executing the goods receipt.

Shipping and Receiving in Supplier Managed Inventory

Review Created ASN /Shipping Notification

For detailed ASN management please refer to Help Center documentation.

The ASN information is available to look up in the following Key figures: **In Transit, ASN received.**

Stock on hand: 100 (EA) | Part details

Key figures	5 Mar 2019	6 Mar 2019	7 Mar 2019	8 Mar 2019	9 Mar 2019	10 Mar 2019
Gross demand						
Net requirement						
Firmed orders						
Planned shipment						
In transit						
Target stock						
Projected stock	100	100	100	100	100	100
Minimum proposal	-15	-15	-15	-15	-15	-15
Maximum proposal	75	75	75	75	75	75
Total shipment						
ASN received						
Days' supply (SMI)	364	363	362	361	360	359
Order received						

Shipping and Receiving in Supplier Managed Inventory

Review Created Goods Receipt

For detailed GR management please refer to Help Center documentation.

The GR information is available to look up in the following Key figures: **ASN received, Order received.**

Stock on hand: 100 (EA) | Part details

Key figures	5 Mar 2019	6 Mar 2019	7 Mar 2019	8 Mar 2019	9 Mar 2019	10 Mar 2019
Gross demand						
Net requirement						
Firmed orders						
Planned shipment						
In transit						
Target stock						
Projected stock	100	100	100	100	100	100
Minimum proposal	-15	-15	-15	-15	-15	-15
Maximum proposal	75	75	75	75	75	75
Total shipment						
ASN received						
Days' supply (SMI)	364	363	362	361	360	359
Order received						

Thank you.

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