

SPARE-X USER GUIDE

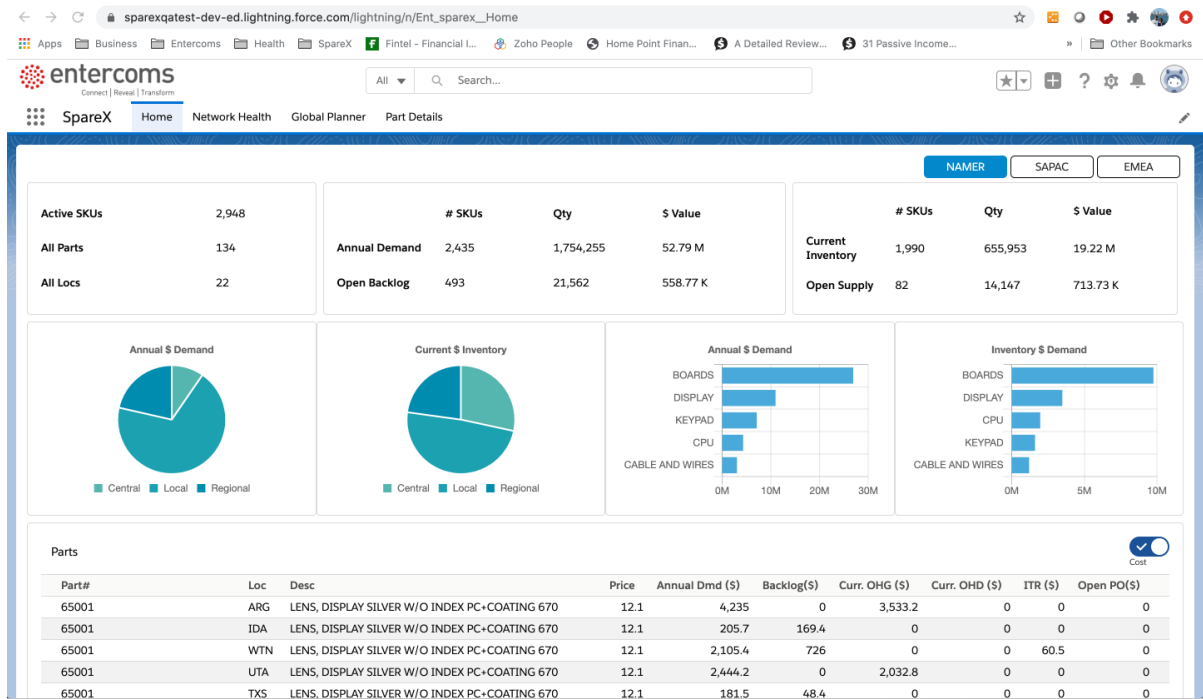
Version 2.1.0

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Home Page

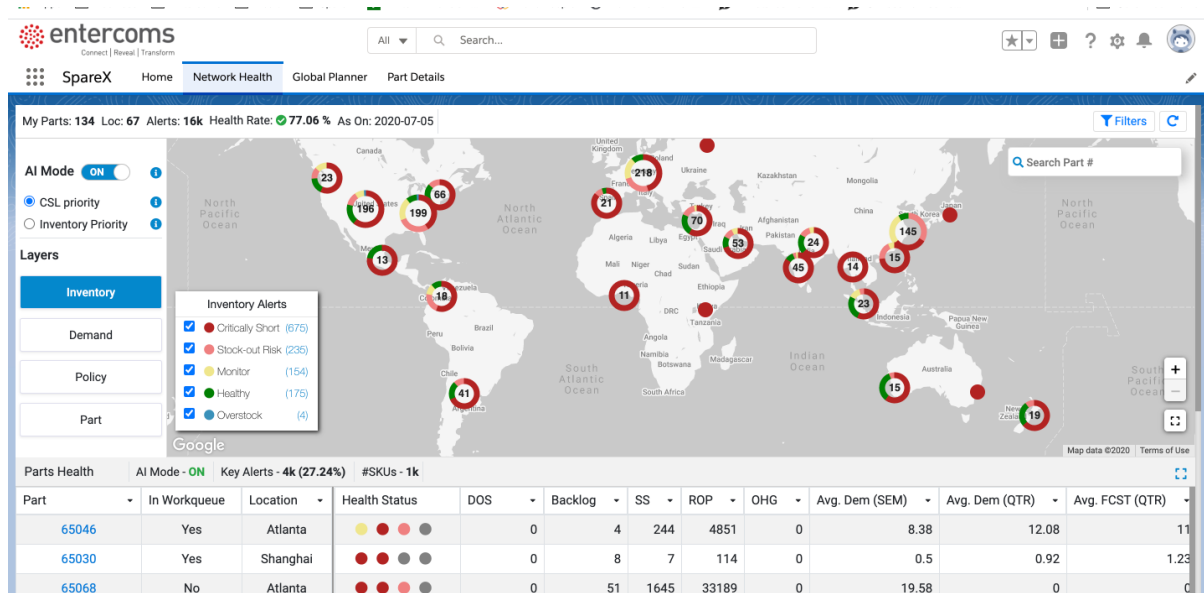
SpareX is a Inventory planning application that Demand & supply planners drive planning decisions based on business priorities.



Intent

- This page provides an quick summary of current of SKUs planned by the inventory management team.
- The takeaway will be to understand key volumetrics by each region such as. –
 - Overall SKU volume – Count of Parts, count of locations
 - Annual Demand by SKU count, total Qty & total value
 - Open Backlog by SKU count, total Qty & total value
 - Current Inventory by SKU count, total Qty & total value
 - Incoming Supply by SKU count, total Qty & total value
- The mid-section are a set of charts that give us Second level drill-down
 - Location type split for Demand & inventory contribution
 - Top 5 commodity contributors of Demand & inventory
- The last section shows list of parts associated with selections in Top & mid-sections.

Part Health



Intent

- The application tends to sense changes or deviations impacting plan.
- In supply chain, looking at various aspects like Inventory, Demand, Stocking Policy etc. over the period we keep on sensing certain signals coming our way indicating there is deviation in the plan.
- Therefore, it is important to understand magnitude and direction of these deviations causing negative or positive impact on performance of the supply chain.
- This helps the planner to proactively prepare and act on the ones by identifying focus parts where performance is headed in the opposite direction against plan.
- To simplify further focused parts can be identified in multiple ways. However, the process based on observations as well as machine intelligence can be more effective for the user.

Sections

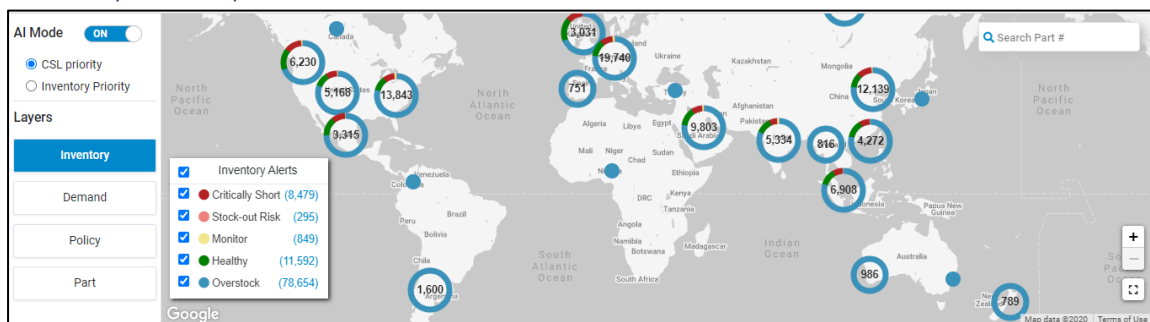
Top Section

- Left corner we have simple volumetric and as on date describing when the alerts were generated. Volumetric describes unique #parts, #locations, #alerts and health rate.
-  Use filters to select a specific region, location, and planner to focus on respect part/loc alerts only. For better visibility, there is drill down capability included through global filter.
-  There is reset button to set the application in its original state.



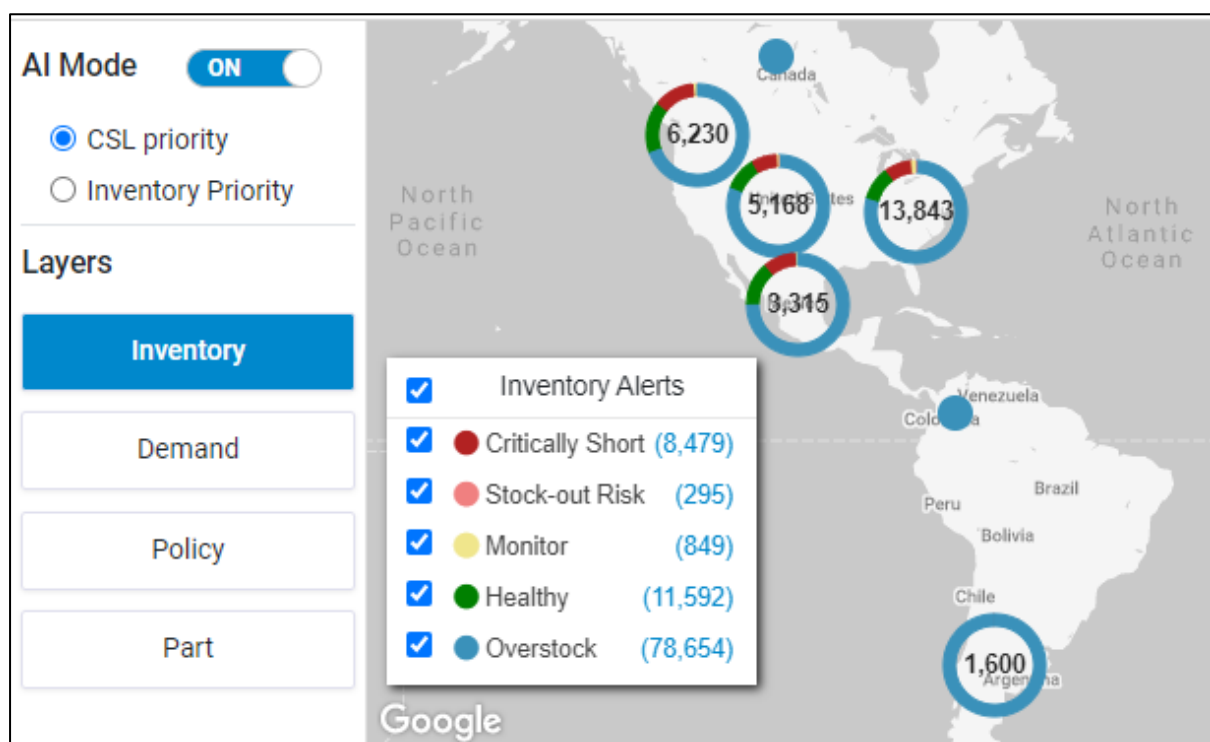
 Global Filters: You can use “Set As Default Filter” to save the existing filter. When you login next time, the same shall persists unless you update the “Set As Default Filter”

Summary and Map



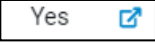
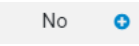
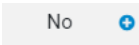
- Left side panel shows machine intelligence with “AI Mode”. In default mode it is been kept as active with default strategy as CSL Priority. Depending on your need you can use toggle button  to make AI mode On or Off. The Part Health has been enabled with two strategies maximize CSL or minimize inventory cost.
- In “Layers” section (Left Panel below AI Mode) four broad categories of alerts are enabled. These categories are Inventory, Demand, Policy, and Part.

- Each broad category is made up by various key subcategories giving more details around the kind of alert and volumetric of these subcategories. This helps planner to prioritize and organize his/her review/work around the alerts in a better way.
- Default “Layer” Selection: Inventory category has been selected (in blue: see snapshot below) as default category. You can see the how the subcategories (alerts) in this broad category are spread over the geographical locations.
- One can get the visibility of distribution of alerts w.r.t each broad category by clicking on respective categories. The corresponding subcategories will be visible to the planner based on broad category selected. One can hover over donuts display on map to know more about the alert distribution for that geo location.
- Please note that, if AI Mode is active, then the Layers will be subjected to the subset of parts fulfilling criteria/strategy for AI mode. If AI Mode is inactive all parts belong to the selected Layer will be visible to the planner.
- Use the search box to search any part of your interest.



Details Grid

- Detailed grid below the map is showing all the relevant information around respective SKU (part-location) and alert associated with it.
- You can also select a part and filter the grid for the same by putting the part in search box provided on Map.
- The information in grid view is very useful to draw insights into part trends (w.r.t inventory, demand, policy etc.) some of the analytical insights can be further used to draw adjustments required to the plan.

- Grid view will also provide all information necessary to analyze the part. This is vital information available to the planner (e.g. backlog, demand, lead time, inventory etc.) for quick and better decision support.
- Four icon under  Health Status points to each broad category in same sequence as top panel. It displays highest subcategory alerts (if exists) under each broad category for a part/loc. Otherwise Grey (no alerts).
- By default, grid is sorted to show HIGH priority alerts for selected Mode and Alert (Layer) category.
-  Use this to put grid view in expandable mode.  Back to original view.
- Grid view also has a provision to navigate to Planner Work queue application.
[Go to Planner Workqueue](#)  You can use this hyperlink to navigate Planner Workqueue from Part Health.
- Column “In Workqueue” can be used to understand if there is any recommendation available in Planner Workqueue. If the recommendation is available against the part, then it will be shown as  with arrow mark indicating link to the same part in Planner workqueue. If no recommendation is available in Planner Workqueue application, then it will be shown as .
- If you want to add any recommendation to Planner Workqueue application from Part Health application, then simply click on  “+” icon, a pop-up window will open to which you can add the recommendation. The same will be start reflecting in Planner Workqueue from that time onwards.
-  You can use the Settings button on grid view to hide/unhide the columns of your interest.

Parts Health		AI Mode - ON	Key Alerts - 9k (6.27%)	#SKUs - 4k									Go to Planner Workqueue 
Part	In Workqueue	Location	Health Status	DOS	Backlog	SS	ROP	OHG	Avg. Dem (SEM)	Avg. Dem (QTR)	Avg. FCST (Q		
P00850959193	Yes 	Netherlands		0	2	1	4	0	0.46	0.38			
P00649674642	No 	Atlanta		0	0	2	10	0	0.27	0.54			
P00850959193	No 	Washington		0	16	4	7	0	1.46	1			
P00174676883	No 	China		0	0	4	9	0	0.42	0.85			
P00395969426	Yes 	Atlanta		17.06	0	85	156	10	8.23	16.46			
P00850959193	Yes 	Atlanta		0	1	2	6	0	0.46	0.46			
P00664889419	Yes 	Netherlands		0	0	3	52	0	0.35	0.23			
P00331727731	Yes 	Netherlands		16.22	0	5	36	4	0.69	0.92			
P00787493407	No 	Atlanta		5.89	0	4	43	1	0.92	1.38			
P00117388331	Yes 	Atlanta		0	0	4	56	0	0.54	0.62			
P00904660022	Yes 	Atlanta		0	0	1	10	0	0.42	0.85			
P00803499543	Yes 	Atlanta		0	0	1	17	0	0.04	0			
P00285951140	Yes 	Atlanta		0	0	2	0	0	0.42	0.54			

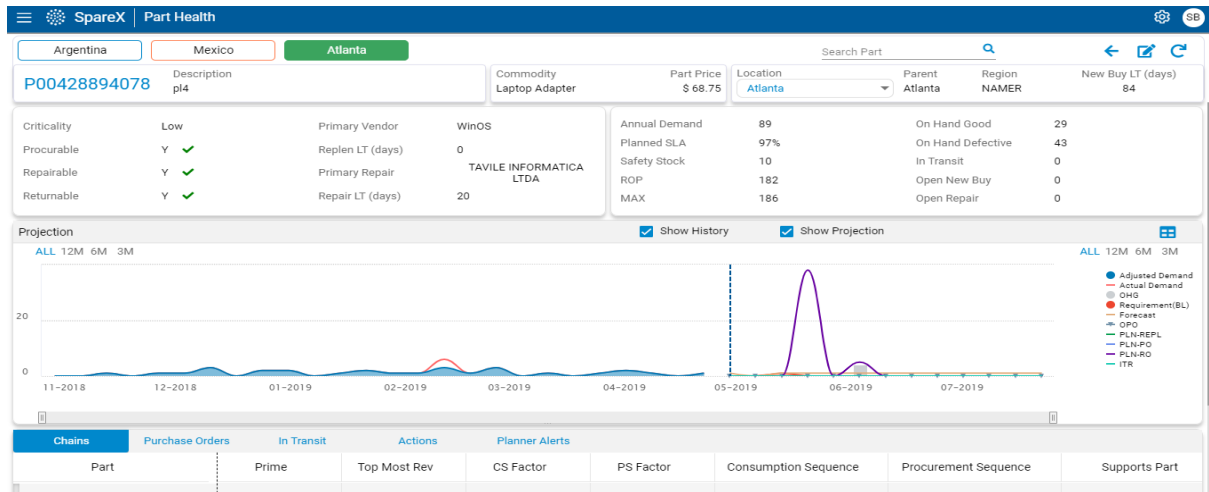


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Part Details

- After reviewing the specific alert and looking at details if the planners wants to do further investigation, he/she can click on the required part number (Blue) in first column, which takes you to the Part details view shown below.
- Planner can use this section to conduct in-depth analysis involving part chains and events happening within the past and future horizons and adjust the plan

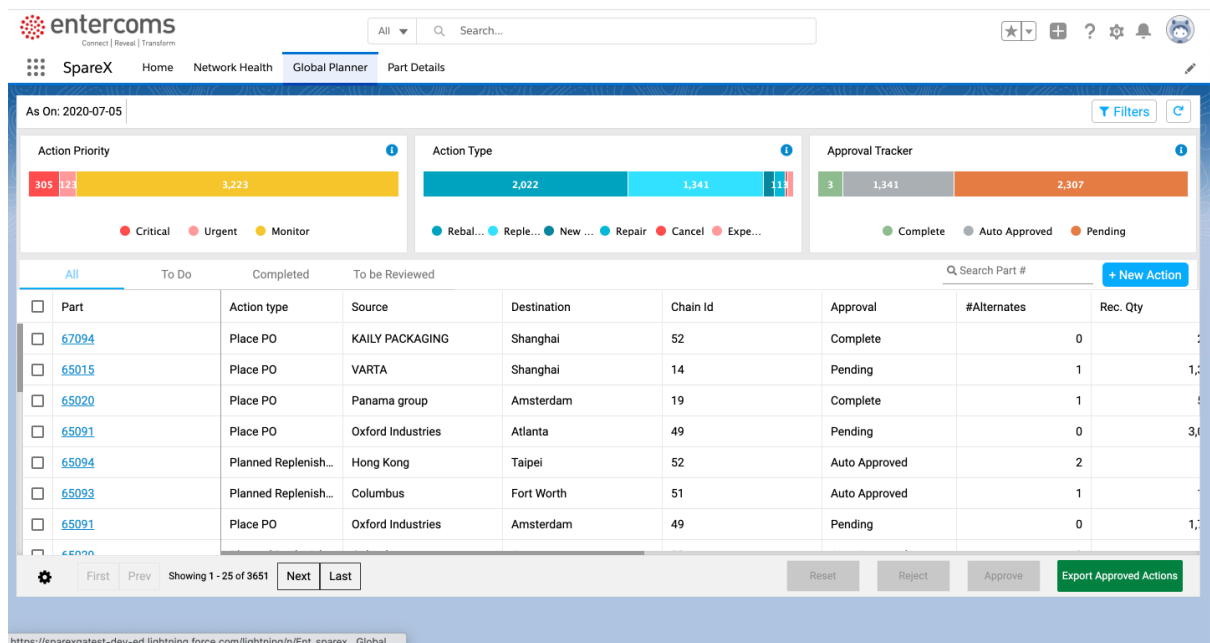


Alert definitions

Alert Category	Sub Category/ Alert Type	Brief Definition
Inventory Alerts	Critically Short	An active part (having demand/backlog/Stocking) with Inventory position (considering chain) is zero
Inventory Alerts	Stock-out Risk	An active part (having demand/backlog/Stocking) with Inventory position (considering chain) lower than ROP considering Monitor_cutoff limit
Inventory Alerts	Monitor	An active part (having demand/backlog/Stocking) with Inventory position (considering chain) between Monitor_cutoff & healthy_cutoff limit w.r.t ROP
Inventory Alerts	Healthy	An active part (having demand/backlog/Stocking) with Inventory position (considering chain) between healthy_cutoff & overstock_cutoff limit w.r.t ROP
Inventory Alerts	Overstock	An active part (having demand/backlog/Stocking) with Inventory position (considering chain) above than ROP considering overstock_cutoff limit
Demand Alerts	Open Back Order	If there is any open past due customer order available
Demand Alerts	Demand Spike	Spike observed in demand within lead time from today w.r.t horizon chosen for forecast
Demand Alerts	Demand Increase	If demand has an increasing trend considering last 6 months
Demand Alerts	Forecast Increase	If average forecast observed is more than demand for a period of 3 months
Demand Alerts	Demand Decrease	If demand has decreasing trend considering last 6 months

Demand Alerts	Forecast Decrease	If average forecast observed is less than demand for a period of 3 months
Policy Alerts	No Safety Stock Set	If the part has one or more than one instance of demand in last one year at a location and doesn't have any safety stock
Policy Alerts	Override Expiring Soon	If the policy override date falls within decided expiration alert window from today's date
Policy Alerts	PastDuePO, Below SS	If the part with On hand good less than safety stock at a location, has past due open purchase order at its hub
Policy Alerts	PastDuePO, Below TSL	If the part with On hand good less than Out/TSL at a location, has past due open purchase order at its hub
Part Alerts	No Supplier Available	If part is procurable but no repair supplier available
Part Alerts	No Repair Supplier Available	If part is repairable but no repair supplier available
Part Alerts	Lead Time Deviation	If the observed average procurement lead time is greater than system LT
Part Alerts	Repair Lead Time Deviation	If the observed average repair lead time is greater than system LT

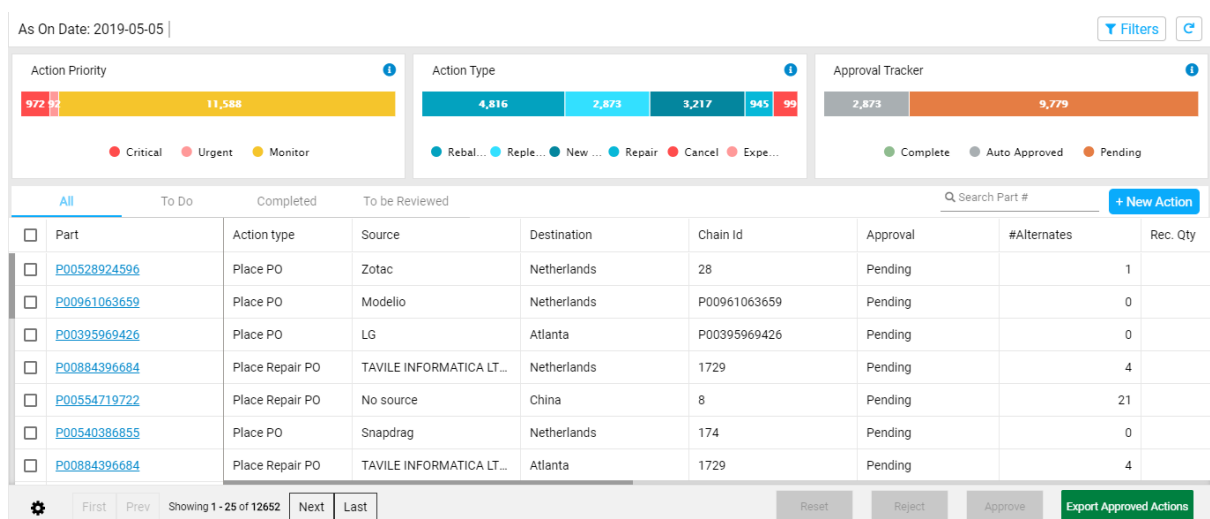
Global Planner Work Queue



Intent

- Planner Work queue covers all the actions identified by the planning tool.
- These actions need a review and approval in case of non-auto approved situation.
- All auto approved actions can be directly considered for execution.
- Based on need, users can also edit recommendations for auto approved actions.

After clicking on the module, users will see the page shown below.



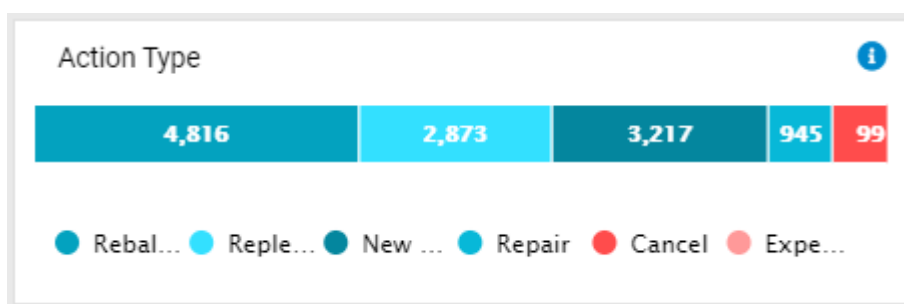
Sections

Action Priority



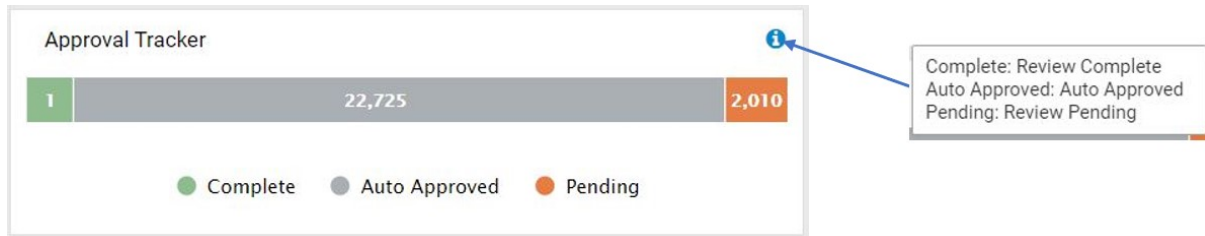
- The sections at the top cover Action Priority, Action Type, and Approval Tracker.
- Action Priority shows priority of actions with the count of part-location pairs falling under each action category.
- The information icon  in the top right will provide definition of each category.
- Action can be prioritized based on all the three categories (critical, urgent, and monitor).
- Critical and urgent are those cases where projected backlog is calculated by the planning tool for the first week/current week or in the new buy lead time period.
- In case of the monitor condition, supply exists but it does not cover TSL (ROP, Reorder point) within lead time. Action is proposed for further review and execution.

Action Type



- Action Type provides the bifurcation of actions/plan into Rebalance, Replenishments, Repair, New Buy, PO Cancellation and PO Expedite recommendations.
- The information icon  at the top right will provide definition of each category.
- The application covers actions consists of material movements within the network via replenishments from parent location to child location.
- Repair and New Buy are recommendations associated with the purchase order to be generated.
- Rebalance is balancing excess from one location to meet shortage/requirement at another.
- Recommendation to expedite and cancel purchase orders.

Approval Tracker



- Approval Tracker provides the status of actions such as Auto Approved, Review Complete, and Review Pending.
- The information icon  at the top right will provide the definition of each category.
- Auto approved is currently configured for all replenishment's recommendations as per defined business rules.
- Auto-approved does not need any action from planners but users can still review it.
- For all non-auto approved cases, the initial state will be shown as review pending, which will change to review complete after planner review (even if plan is rejected or accepted).

Using Filters

The filter button  in the top right helps apply filters of Search Part, Action Type, Location, Owner, and Project. It displays the box shown below where users can select a filter from the 5 dropdowns and click on Apply Filters.

After clicking on Apply Filters, the results that match the applied filters will be visible on the screen. View selected filter in the Filters section.

Filter

Search Part

Action Type

Planner

Location

Reset Filters

Apply Filters

Action Work Queue

- Action Workqueue contains all the actions proposed by the tool.
- Workqueue is divvied into 4 different buckets. This will simplify process in order to identify tasks that need to be accomplished by the planner.
 - All the active recommendations whether they are auto approved or needed to be reviewed are available in “All” grid.
 - The recommendations that needed to be acted upon are available in “To Do” list.
 - Recommendations that are completed are automatically moved to “Completed” List.
 - Recommendations coming from Part Health application are available in “To Be Reviewed” list.
- When a recommendation is marked for manual approval, planner has the option to change status to “Approved” or “Rejected.”
- These need review and approval for continuing the execution process.
- It contains part level details such as Part, Chain ID, Approval Status, Recommended Qty, Part Price, Approved Qty, Value, Review Status, Reason Code, and Notes.

- Search Part #

User can also search the part if his/her interest using part search box available on grid view.

All To Do Completed To be Reviewed Search Part # + New Action								
☐	Part	Action type	Source	Destination	Chain Id	Approval	#Alternates	Rec. Qty
☐	P00528924596	Place PO	Zotac	Netherlands	28	Pending	1	
☐	P00961063659	Place PO	Modelio	Netherlands	P00961063659	Pending	0	
☐	P00395969426	Place PO	LG	Atlanta	P00395969426	Pending	0	
☐	P00884396684	Place Repair PO	TAVILE INFORMATICA LT...	Netherlands	1729	Pending	4	
☐	P00554719722	Place Repair PO	No source	China	8	Pending	21	
☐	P00540386855	Place PO	Snapdrag	Netherlands	174	Pending	0	
☐	P00884396684	Place Repair PO	TAVILE INFORMATICA LT...	Atlanta	1729	Pending	4	

First

Prev

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Next

Last

Reset

Reject

Approve

Export Approved Actions

Creating New Recommendation:

- User also can add new recommendation here using [+ New Action](#). The process is described in next section with sequence of snap shots.
- Upon clicking the New Action button, a pop up “Create Action” will open where user can add recombination.
- User need to mention part and location along with what type of recommendation need to be added.
- If the same part and location already has recommendation, then the alert message will be displayed to the user saying “The recommendation already exists! Do you want to Edit?”.
- If you click on Yes, “Review Details” pane will open showing all the recommendation details. User can update the recommendation in this page and save the same to complete the action queue.

Create Action

Location * ▼ Search Part Action Type

Please choose a location Place PO ▼

(*) mandatory fields

Create Action

Location * Search Part Action Type

Netherlands P00523683774 ✔ Place PO

Recommendation already exists! Do you want to edit?

Okay Cancel

Review Details ✕

Part

P00523683774

Quantity

5

Location

NLD

Status

Action

Place PO

Reason Code

Note

Submit

Approve/Reject Recommendations

- Use the Multi Select boxes to Approve or Reject actions that are pending approval.
- When you select one or more parts, the Approve and Reject buttons are activated, as shown below snapshot.
- Use the uppermost Multi Select checkbox to Select All available records, if needed.
- Approve or Reject through this method or through Status/Review Details.
- Click on Export Approved Actions button to download a .txt file with details of all approved actions.
- The columns provide high level content mentioned in the Action Work Queue module
- You can also reset the recommendation to its original state (as recommended by the system) if you see any issue with recommendations updated by the user.

All To Do Completed To be Reviewed								
Q Search Part # + New Action								
☐	Part	Action type	Source	Destination	Chain Id	Approval	#Alternates	Rec. Qty
☒	P00528924596	Place PO	Zotac	Netherlands	28	Pending	1	
☒	P00961063659	Place PO	Modello	Netherlands	P00961063659	Pending	0	
☐	P00395969426	Place PO	LG	Atlanta	P00395969426	Pending	0	
☐	P00884396684	Place Repair PO	TAVILE INFORMATICA LT...	Netherlands	1729	Pending	4	
☐	P00554719722	Place Repair PO	No source	China	8	Pending	21	
☐	P00540386855	Place PO	Snapdrag	Netherlands	174	Pending	0	
☐	P00884396684	Place Repair PO	TAVILE INFORMATICA LT...	Atlanta	1729	Pending	4	

⚙️
First
Prev
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Next
Last
2 Records Selected
Reset
Reject
Approve
Export Approved Actions

Column	Description
Part	Parts with recommended actions. Click on a Part to go to Part View .
Action Type	It contains Place PO, Place Repair PO, Planned Replenishment, and Rebalance
Source	It contains the source of action type (In case of Plan PO and Repair PO, it is the Vendor and in case of Replenishment or Rebalancing, it is the source within the network location for initiating material movement)
Destination	Place where the material is supposed to reach within the network location
Chain ID	A unique number is assigned to all the parts that are in substitute (one way or two way) relationship with each other as per part chain file. For the standalone part (single part that is not linked to any other part), Part Group ID column shows same value as Part column
Approval	Status of action. It will have auto approved, review pending, rejected and review complete.
#Alternates	Number of parts in the chain
Recommended Qty	Quantity recommended by planning tool
Approved Qty	Quantity approved by planner
Part Price	Unit cost of part
Order Value	Unit cost*Approved quantity
Status	Status of Review which provides the planner with the facility to Approve or Reject or change (increase/reduce) the recommended quantity and reason code with additional comments, as demonstrated below in Status/Review Details .
Reason Code	Reason for rejecting or changing the recommended quantity.
Notes	Additional comments/observations entered by the planner in the review details pop up window. Latest Notes will be shown.

Status/Review Details

Click on any part of the row within Action Workqueue to popup the Review Status (described above) window. Users can make changes here.

Review Details

Part

P00528924596

Quantity

134

Location

NLD

Status

Approved

Action

Place PO

Reason Code

New Project

Note

New Model Launch

Submit

- In the default state quantity recommended will be shown, which can be changed as per planner evaluation and business needs.
- Select status as “Approved” or “Rejected”. Select Reason Code from dropdown and note (free text) for reference.
- Click on the Submit button to change status. This will capture details in the “approved quantity”. Also, all other relevant columns will get updated.
- Scroll further in the “Review details” sections to check on the colour-indicated review history. (Green is Approved, Blue is for Approved with edits made, and Red is Rejected).
- After the recommendation is approved, all final approved plan can be downloaded for further integration with execution systems.

Part Details

entercoms

Connect | Reveal | Transform

All

Search...

SpareX

Home

Network Health

Global Planner

Part Details

Amsterdam

65002

UNIT, UART 670/680 BASE DONGLE DARK BLUE BLACK

DONGLE

\$ 14.54

Amsterdam

Amsterdam

EMEA

47

Criticality

Low

Primary Vendor

MNC Group

Annual Demand

9

On Hand Good

7

Procurable

Y ✓

Replen LT (days)

0

Planned SLA

97%

On Hand Defective

0

Repairable

N ✗

Primary Repair

0

Safety Stock

19

In Transit

0

Returnable

0

Repair LT (days)

0

ROP

384

Open New Buy

0

MAX

386

Open Repair

0

Chain Details

Part

Location

TSL Gap

Customer S...

PLN-PO

PLN RO (Yie...

Rebalancing

OHG

ITR

Open PO

Backlog

SS

65002

NLD

0

0

0

0

603

2715

22

0

66

66002

NLD

0

0

0

0

312

1361

0

0

0

67002

NLD

0

0

0

0

161

541

0

0

0

0

0

0

0

0

0

1076

4617

22

0

66

Chains

Purchase Orders

In Transit

Actions

Planner Alerts

Part

Prime

Top Most Rev

CS Factor

PS Factor

Consumption Sequence

Procurement Sequence

Supports Part

65002

65002

Price

Price

1. 65002
2. 66002

1. 65002

1. 65002
2. 66002

Intent

- Part Details covers the complete story of the part across all network locations including relationships with other chain parts.
- In this application planner can conduct in-depth analysis involving part chains and events happening within the past and future horizons and adjust the plan. This will also help planner to understand impact of part chains on overall network.
- This application also helps user ascertain if the recommended actions are justified.
- Planner can also use this application to align the plan by doing following
 - Outlier Correction
 - Forecast adjustments
 - Policy adjustments

Netherlands		Search Part					
P00884396684	Description Pack22V	Commodity AMOLED Display	Part Price \$ 1359.6	Location Netherlands	Parent Netherlands	Region EMEA	New Buy LT (days) 84
Criticality	Low	Primary Vendor	Snapdrag	Annual Demand	74	On Hand Good	0
Procurable	Y ✓	Replen LT (days)	0	Planned SLA	83.3%	On Hand Defective	141
Repairable	Y ✓	Primary Repair	TAVILE INFORMATICA LTDA	Safety Stock	4	In Transit	0
Returnable	Y ✓	Repair LT (days)	20	ROP	51	Open New Buy	0
				MAX	52	Open Repair	0

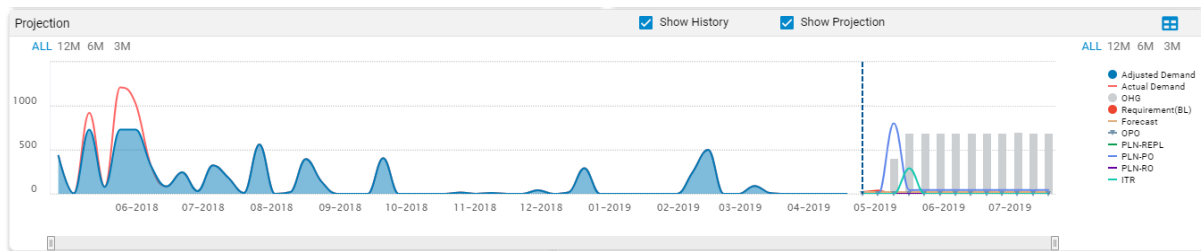
Header	Description
Description	Description of the part
Commodity	Type of commodity the part belongs to
Part Price	Unit cost of the part
Location	Location at which the part is being reviewed. This is also a filter
Parent	Parent location for field location
Region	Region defined for the planning location
New Buy LT	Vendor Lead time in days from the procurable location
Criticality	Importance of the part for overall supply chain planning
Procurable	A green tick if the part is procurable at the selected location
Repairable	A green tick if the part is repairable at the selected location

Returnable	A green tick if the part is repairable at the selected location
Primary Vendor	Vendor on which recommended Purchase order will be placed
Replen LT	Replenishment lead time from parent location to selected location
Primary Repair	Vendor on which recommended Repair order will be placed
Repair LT	Repair vendor Lead time in days from the procurable location
Annual Demand	Sum of yearly demand for that part (qty)
Planned SLA	Service Level considered for Safety stock calculation
SS	Safety Stock (qty). This is designed by planning tool considering various factors like price, LT, demand pattern of the location and the network
Max	Stock max (qty). This quantity refers to maximum stock level a part-location can have. This also provides inputs for placing replenishment/purchase order in the case of need or Gap to Target stocking level.
ROP	Reorder Point (qty). This is designed by the tool as a trigger point against inventory position. Once inventory (considering part substitution) goes below ROP, supply need will be triggered to fill inventory up to Max
On Hand Good	On Hand Goods (qty). This is combination of good and refurbished inventory.
In Transit	Quantity of that part in transit (qty) to the selected location from any location.
On Hand Defective	On Hand Defective (qty). This is bad inventory available for repair.
Open New Buy	New Buy open purchase order quantity from purchase order book
Open Repair	Repair purchase order quantity from purchase order book

Projection

- The **Projection** section provides the better visibility of part trends consists of present, past and future events associated with part (Supplies, Current backlog, Inventory on hand, defective inventory, and demand)

- Users can deselect any measure users want to hide from the legend on the right, which will clear the Projection map of that quantity.
- To make this quantity reappear, simply re-click it. Show History and Show Projection will allow user to focus on specific section.



Projection for the part includes the following:

Projection	Description
Adjusted Demand	Outlier corrected historical demand trend
Actual Demand	Actual demand trend for the part at the selected location
OHG	Periodic on-hand goods projection considering supply-demand balance, part substitution. This is shown for future period
Requirements (BL)	In case if projected supply is less than the projected need, Backlog (BL) will be shown for that period. For future period, Requirements (BL) is cumulative
Forecast	Prediction for future demand evaluated by the tool
OPO	Open Purchase Order qty shown in the week of due date
PLN-REPL	Planned Replenishment from parent location evaluated by the tool. This is shown in the week when supply is expected from supporting locations. These planned replenishments are against location need to cover Gap to TSL, forecast and open backlog.
PLN-PO	This refers to planned purchase order. This is calculated considering accumulation of the network need. This will be an action at the procurement locations.
PLN-RO	This refers to planned repair order. This is calculated considering accumulation of the network need. This will be an action at the repair locations.

ITR	This is the quantity in transit towards the selected location.
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Chain Details

Clicking on the table icon on the right top will take user to the Chain details.

Chain Details indicate details for parts in the same family having part substitutions. Users can view **Location** specific details for each of those **Chain** parts by clicking on the maximize button  to view all the locations that part is located at as shown below.

Chain Details Single Network   										
Part	Location	TSL Gap	Customer S...	PLN-PO	PLN RO (Yie...	Rebalancing	OHG	ITR	Open PO	Backlog
 P00428380811	ATL	31	0	0	0	0	0	0	0	0
Atlanta	ATL	28	0	0	0	0	0	0	0	0
Washington	WTN	2	0	0	0	0	0	0	0	0
Mexico	MEX	1	0	0	0	0	0	0	0	0
Denver	DEV	0	0	0	0	0	0	0	0	0
Ohio	OHI	0	0	0	0	0	0	0	0	0
 P00186321103	ATL	0	0	27	4	0	11	0	0	0
		31	0	27	4	0	11	0	0	0

Below is a table with a description of all headers associated with this table.

Headers	Description
Part	Part and substitute parts in chain
Location	Network location
TSL Gap	Quantity Gap to fulfill till target stocking levels.
Customer Shortage	Open customer requirement at the location after considering part substitution
PLN-PO	This refers to planned purchase order. This is calculated considering accumulation of the network need. This will be an action at the procurement locations.
PLN-PO (Yielded)	These are plan repair P.O. which needs to be placed after considering the repair yield
Rebalance	Network rebalancing considering excess and shortage. Qty is mapped at receiving location
OHG	On Hand Goods (qty). This is combination of good and refurbished inventory.
ITR	Good supply from parent location to child location
Open PO	Confirmed open new buy orders
Backlog	Backlog for that part-location (qty)
SS	Safety Stock (qty). This is designed by planning tool considering various factors like cost, LT, demand pattern of the location and the network.
ROP	Reorder Point (qty). This is designed by the tool as a trigger point against inventory position. Once inventory (considering part substitution) goes below ROP, supply need will be triggered to fill inventory up to Max

Stock Max	Stock max (qty). This quantity refers to maximum stock level a part-location can have. This also provides inputs for placing replenishment/purchase order in the case of need or Gap to Target stocking level.
Forecast	First week forecasted requirement
DMD (13 week)	Latest 13 weeks demand

- This grid is useful to understand which part-location pair is driving the Planned Repair order / Planned New buy orders.
- TSL Gap + Customer shortage across all parts will be the **Total need** of the network.
- When network supplies are not enough to meet **Total Need**, is fulfilled via PLN NB and PLN RO.
- Delta between TSL gap + Customer shortage and planned orders will be the MOQ of the procurable part.
- Users can navigate to the **Projection** section again by clicking on the **Switch to Projection** button 

Supporting Information

The tabs on the lower part of the page explain the details of the part.

Chains

Indicates the other parts in a chain that can support this part. Screenshot is below.

Chains	Purchase Orders	In Transit	Actions	Planner Alerts			
Part	Prime	Top Most Rev	CS Factor	PS Factor	Consumption Sequence	Procurement Sequence	Supports Part
P00884396684	P00884396684		Price	Price	1. P00884396684 2. P00960040986 3. P00883570563 4. P00831015574 5. P00673852288	1. P00673852288 2. P00884396684 3. P00831015574 4. P00883570563 5. P00960040986	1. P00884396684 2. P00883570563 3. P00673852288

Headers	Description
Part	Selected part
Prime	Prime part for the selected part
Top Most Rev	Top Successor of the part
CS factor	Criteria used to decide the consumption sequence
PS factor	Criteria used to decide the procurement sequence

Consumption Sequence	The sequence in which supply will be consumed from supporting parts
Procurement Sequence	The sequence in which new buy orders will be places to support the selected part
Supports Parts	Parts that are supported by this part for fulfilment

Open Purchase Order

Indicates the purchase orders that are in process.

Chains	Purchase Orders	In Transit	Actions	Planner Alerts			
Order Type	Order Number	Line Number	Order Qty	Order Date	Required Date	Required Date	Supplier Name
N	ABD5K401	9	2030	2019-04-09	2019-05-09	2019-05-09	BNW COMPONENTES ELE...

Headers	Description
Order Type	Type of order placed (new buy, repair, or warranty)
Order Number	Unique alphanumeric code identifying an order
Line Number	Number of suborders that an order has
Order Qty	No. of parts in the order (quantity)
Order Date	Date the order was placed on
Required Date	Date the order was requested to reach the receiving location on
Supplier Name	Name of the supplier supplying the order

In Transit

Indicates orders that are in transit.

Chains	Purchase Orders	In Transit	Actions	Planner Alerts
Source	Destination	Order Date	Arrival Date	Quantity
Data Not Available				
1 of 1 0 - 0 of 0				

Header	Description
Order Number	Unique alphanumeric code identifying an order
Source	Source location of the order
Destination	Destination location of the order
Order Date	Date the order was placed on
Arrival Date	Date the order is expected to arrive at destination location
Quantity	Number of parts in the in-transit order
Type	Identifies the type of supplies Actual: Supplies that are in process Planned: these are supplies recommended by sparex (rebalance, replenishments from parent)

Actions

Indicates actions that need to be taken.

Chains	Purchase Orders	In Transit	Actions	Planner Alerts			
Action Type	Order Date	Source	Destination	Unit Cost	Order Qty	Arrival Date	Order Value
Place PO	2019-05-05	NLD	NLD	1567.5	134	2019-05-19	210045



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Header	Description
Action Type	The type of action that needs to be taken
Order Date	Date the order was placed on
Source	Origin location of the order
Destination	Receiving location of the order
Unit Cost	Per unit cost of the selected part
Order Qty	The number of parts in the order
Arrival Date	Date the order is expected to arrive at destination location
Order Value	Value of the placed order

Planner Alerts

Indicates Planner Alerts on at the Selected Part Loc pair.

Chains		Purchase Orders		In Transit		Actions		Planner Alerts	
Category	Alert Type	Action Date	Priority	Observed Avg. LT	Observed Avg. R...	Avg. Dem (SEM)	Avg. Dem (QTR)	Avg. FCS	
Inventory	Healthy		Monitor			0	0		



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Header	Description
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Category	Major group of the Alert buckets
Alert Type	Specific alert on the part-loc pair
Action Date	Date on which action against the alerts was taken
Priority	Criticality of the alert depending on the impact on supply chain
Observed Avg LT	Average New Buy LT observed in history
Observed Avg Repair LT	Average Repair Order LT observed in history
Avg Dem (SEM)	Half Yearly Average Demand (Relative estimate)
Avg Dem (Qtr)	Quarterly Average Demand (Relative estimate)
Avg Forecast (Qtr)	Quarterly Average Forecast (Relative estimate)

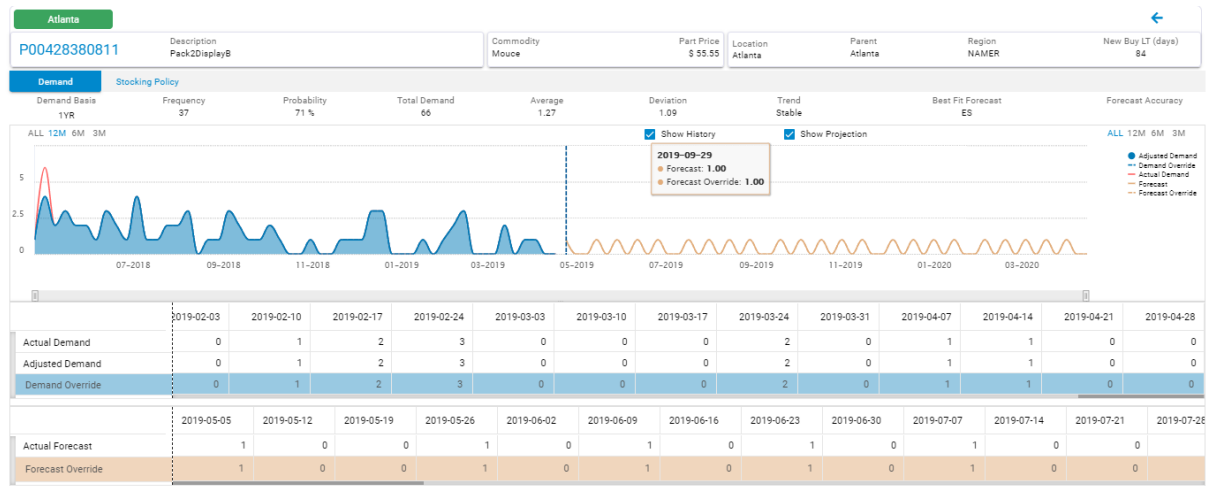
After review of the part from various aspects, users can go back to Planner work queue module for completing the approval workflow as per review.

Modify/Update Plans

Clicking on the override button on the top right allows user to override Demand, Forecast and Stocking levels that engine will consider in the next run.

United Arab Emirates Netherlands		Search Part					
P00278294694	Description Pack&Laptop AdapterH	Commodity Motherboard	Part Price \$ 1732.5	Location United Arab Emirates	Parent Netherlands	Region EMEA	New Buy LT (days) 84

Override Demand Plan



This section allows user to override historical demand (outlier corrected) or forecast (in case of anticipated demand). The tab for demand override mentions some of the key parameters that were considered for demand normalisation and forecasting

Header	Description
Demand Basis	Historical Demand time frame considered for calculation based on demand instances and demand pattern
Frequency	Number of non zero demand instances in selected time frame
Probability	Probability that a defined period will have demand
Total Demand	Total demand on the part at the location in selected time frame
Average	Average demand per period
Deviation	Deviation in outlier corrected demand
Trend	Trend captured of the historical demand
Best Fit Forecast	Forecasting method chosen based on demand pattern and demand trend
Forecast Accuracy	Average Forecast Accuracy over the selected timeframe

- The chart clearly shows dotted line in the middle which separates historical demand and forecast projection.

- User has multiple time series available for review in this section as far as demand and forecast are concerned. Following is the description of the same.
- Time series associated with historical demand (Demand Table)
 - Actual Demand: This is actual demand as it is without correction of outlier
 - Adjusted Demand: This autocorrected demand based on identified outliers
 - Demand Override: This demand stream is available to the user to override the historical demand by taking into consideration actual and adjusted demand.
 - Clicking on any of the historical demand point on the graph will enable “Demand Override” for edit.
- Time series associated with forecast (Forecast Table)
 - Actual Forecast: This is statistical forecast recommended by system based on system corrected (Adjusted Demand)
 - Forecast Override: This forecast stream is available to the user to override the forecast by taking into consideration actual forecast or anticipated demand in future.
 - Clicking on any of the forecast point on the graph will enable “Forecast Override” for edit.
- User can edit relevant values and save them. These new values will be considered for the next planning cycle or engine run.

Stocking Policy Override

Demand		Stocking Policy		Repairable		Repair LT (days)		Primary Vendor		Primary Repair																	
Returnable	Y	Procurable	N	Repairable	Y	Repair LT (days)	20	Primary Vendor	Transden	Primary Repair	TAVILE INFORMATICA LTDA																
				<table border="1"> <tr> <td>Network SLA</td> <td>0.92%</td> <td>Planned Safety Stock</td> <td> 11 </td> </tr> <tr> <td>System Safety Stock</td> <td>11</td> <td>Planned System Re-Order Point</td> <td> 20 </td> </tr> <tr> <td>System Re-Order Point</td> <td>20</td> <td>Planned System Max Level</td> <td> 21 </td> </tr> <tr> <td>System Max Level</td> <td>21</td> <td>Expiry Date</td> <td> </td> </tr> </table>								Network SLA	0.92%	Planned Safety Stock	11	System Safety Stock	11	Planned System Re-Order Point	20	System Re-Order Point	20	Planned System Max Level	21	System Max Level	21	Expiry Date	
Network SLA	0.92%	Planned Safety Stock	11																								
System Safety Stock	11	Planned System Re-Order Point	20																								
System Re-Order Point	20	Planned System Max Level	21																								
System Max Level	21	Expiry Date																									
				Save Cancel																							

- Stock level override gives user visibility of parameters considered while deciding the safety stock and Reorder point levels.
- The Map shows the geographical locations (network locations) where stocking levels have been planned
- For a part at a location, user can override Safety stock quantity, Re-order point level and stock max level.
- When any of these is overridden, its necessary to provide the date till which these overrides will be effective.
- The future engine runs till the expiry date will consider these overridden values.