



# Service Parts Planning

Datasheet

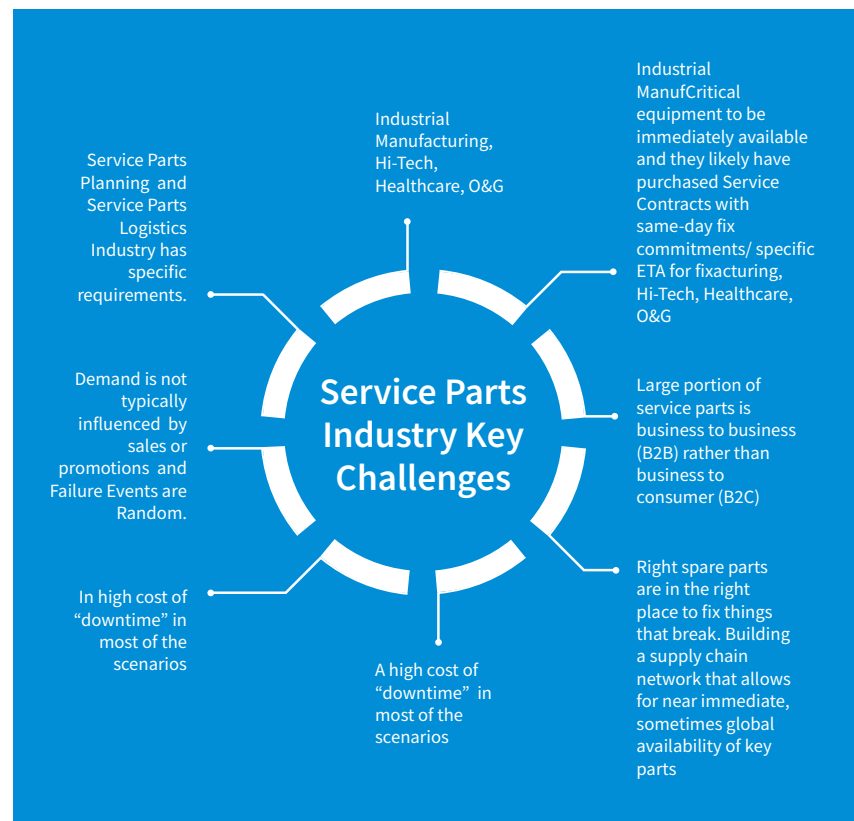


**Trinamix**

## Service Parts Planning

Many businesses across the world deal with heavy machinery or equipment that consumes maintenance materials, and spare parts management is one of the most important considerations to take into account. Having a strong spare parts planning system in place can offer benefits across many different aspects of operations.

Any Service Parts planning solution typically includes Forecasting, Replenishment Planning, Inventory Planning components, in addition to supporting service specific constructs.



## Trinamix Service Parts Planning (SPP) is comprehensive solution for managing Service Parts in ERP Cloud/Legacy ERP

It is a Complimentary extension to Cloud Planning Suite inc Demand, Supply & Replenishment Planning and enhance or introduce some of the key SPP capabilities as given below.



### Supercession Modelling in Forward Logistics Flow

- Complex Supercession Modelling and Visualization
- Consider Supercession Relationship in Allocation Logic
- Complex chaining/NPI in Spare Part Forecasting Process based on Supercession relationship



### Reverse material flow

- Incorporate defective supplies in Allocation Logic
- Plan Repair activity for their repairs and defective repaired to usable inventory by honoring Repair LT, Yield etc.



### Integration

- Out of the box Integration with any of Cloud Demand Planning, Supply Planning & Replenishment Planning application.
- It will also have feature to mass load input data sets like item, Item Relationship, Supply/demand etc through FBDI or can be collected programmatically from any ERP Source inc Fusion ERP.

## Trinamix Service Parts Management Key Features & Benefits with these features

### ▶ Consideration of Supersession Relationship in Allocation

- Multi-level uni-directional/bi-directional substitute relationships within a Supersession family.
- Routine to rank items within a Supersession relationship
- Consider demands for lower revision items first before meeting higher revision items.
- Consider lower revision supplies to meet the demand by honoring Supersession relationship.

### ▶ Consideration of Defective Supplies in Allocation

- Consider all types of Defective Supply including Defective on-hand, Defective Supply Schedule, Defective Transfer orders between orgs
- Utilize usable supply first to meet Demands within Supersession chain.
- For unmet demand it will utilize Defective Supplies to meet Demand based on Repair to relationship setup.

### ▶ Consideration of Usable supply in Repair Process

- Optimize inventory by utilizing lower revision items with Uni-directional Supersession relationship
- Usable inventory can also be used to satisfy demand of higher revision items through repair process (setup at individual item level)

### ▶ Item Relationship Network Diagram

- Utilize Network offering to showcase Item Relationship structure
- Currently it can show Supersession relationships across the entire Supersession family of items.
- Being enhanced to show Repair to Relationship to review Supersession relationship & identify any issues in the structure.

### ▶ Review of Demand & Supply based on Top Item

- Use Top item filter criteria view: Demand, Supply and defective supplies for a given Top item as well.

### ▶ Matrix Report by Top Item to review allocation Calculation

- Review allocation calculation output by Top item and Revision Item.
- Matrix report for overview of demand/Supply netting within a Supersession family for all demands/supplies used in Pivot format. Provides any demand Shortage or excess supply after allocation.

### ▶ Detailed Pegging Report by Top Item to review allocation Calculation

- Demand/Supply Pegging report provides an overview of demand/Supply netting/Pegging within a Supersession family for a given Demanded Item.
- Provides detailed demand/supply pegging details by Demand Date, Demand Type, Supply Date, Supply Type for Defective details, Repair Yield, Repair LT details.
- Provides Shortage for each demanded item and any excess supply for all items within the Supersession chain

### ▶ Generation of Repair Supplies

- Generates Repair Supplies after the allocation process.
- For any defective items of Repair Process, tool will provide repair work orders and incorporate Repair Lead time and Repair Yield to the calculation.
- Repair work order can be interfaced to other systems either by exporting to excel or programmatically

# Trinamix Service Parts Management Solution Framework & Details

## Review Item Master Data

Excel Import Mass upload of data through Excel Import option

Search: All Text Columns Actions Edit Save Add Row Reset

Plan Name equals SPP

Item	Item Description	Category	Forecasted Flag	Item Status	Repair Lead Time	Repair Yield	Plan Name	Spp Repair Supply Qualifier
4443926301	4443926301	Category1		Active	10	.5	SPP	ALL_SUPPLY
4440045941	4440045941	Category1		Active			SPP	DEFECTIVE_ONHAND
4440045944	4440045944	Category1	Y	Active	6	.33	SPP	DEFECTIVE_SUPPLY
4440046498	4440046498	Category1		Active			SPP	
4440047723	4440047723	Category2		Active			SPP	
4440049186	4440049186	Category2	Y	Active			SPP	
4440049225	4440049225	Category3	Y	Active			SPP	
4441414701	4441414701	Category3		Active			SPP	
4441414800	4441414800	Category3		Active			SPP	

Item details with Category/Item Status/Forecast Flag

Default Repair LT & Repair Yield by item

Different Options to consider types of Repair Supply by Item level  
 All Supply – All Defective Supplies  
 Defective On-hand – Only Def On-Hand  
 Def Supply – Only Def On-Hand/Existing Supplies(not Repair Schedule)

## Review Matrix Report

Home Supply Demand Horizontal Plan Demand Pegging Setup Item Relationship Chart Matrix Report

Input Demands/Supplies View

Order Type in Demand - Sales Order, Supply - Onhand, Supply - Onhand

Plan Name = SPP

Item	Order Type	8/31/2020	9/7/2020	9/14/2020	9/21/2020	9/28/2020
4443926502	Demand - Sales Order	100	80	100	100	50
444642300	Demand - Sales Order	70	1,300	80		
4442633201	Supply - Onhand	40				
4442633202	Supply - Onhand	360				
4443926500	Supply - Onhand	180				
4443926501	Supply - Onhand	850				
4443926502	Supply - Onhand					
444642300	Supply - Onhand					

Output Demands/Supplies View

Org = TRO

Supply Item	4443926502	444642300	Excess
4442633201			40
4442633202	360		
4443926500	70		
4443926501			850
4443926502			490
444642300			510
			1,650
	430	1,460	3,200

Supplies of Lowest Revision Item will be allocated first before using Higher Revision Item Supplies based on Supersession Relation

Demand of lower Revision Item will be first met before Higher Revision Items

Input Demand details by Item, Order Type & by Week Details

Item Supply not used since Supersession relationship is Uni-lateral

Key Objective is to use up all lower revision supplies to meet item demand and Excess Supply to be available in Higher Revision Items

## Review Pegging Report

Org : TRO, Demand Item : 4443926502

Demand Date	Demand Quantity	Allocated Qty	Supply Item	Supply Quantity	Order Type	Defective Supply	Repair Yield	Supply Date
8/31/2020	100	80	4442633202	80	Supply - Onhand	No		8/31/2020
8/31/2020	100	20	4442633202	130	Supply - Onhand	No		8/31/2020
9/7/2020	80	80	4442633202	130	Supply - Onhand			8/31/2020
9/14/2020	100	30	4442633202	130	Supply - Onhand			8/31/2020
9/14/2020	100	70	4442633202	150	Supply - Onhand			8/31/2020
9/21/2020	100	80	4442633202	150	Supply - Onhand			8/31/2020
9/21/2020	100	20	4443926500	170	Supply - Onhand	No		8/31/2020
9/28/2020	50	50	4443926500	170	Supply - Onhand	No		8/31/2020
		430						

Demand Pegging details by Demanded Item. Provide details for each Demand by Date, Allocated qty, Supply type, Defective Supply flag, Repair Yield and Supply Date details

## Trinamix Service Parts Management Solution Framework & Details

### Review Item Relationship

### Item Relationship Table

Calculate Order

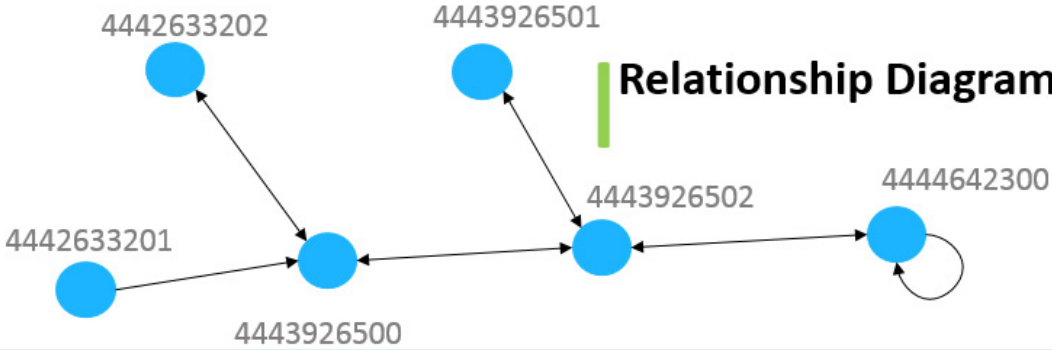
Go
Actions
Edit
Save
Add Row
Reset

Top Item equals 4444642300

	Top Item	From Item	To Item	Reciprocal Flag
<input checked="" type="checkbox"/>	4444642300	4444642300	4444642300	
<input type="checkbox"/>	4444642300	4443926502	4444642300	Yes
<input type="checkbox"/>	4444642300	4443926500	4443926502	Yes
<input type="checkbox"/>	4444642300	4443926501	4443926502	Yes
<input type="checkbox"/>	4444642300	4442633202	4443926500	Yes
<input type="checkbox"/>	4444642300	4442633201	4443926500	

1 rows selected Total 6

### Relationship Diagram



```

graph TD
    A((4442633202)) --> B((4443926500))
    C((4443926501)) --> B
    D((4442633201)) --> B
    B --> E((4443926502))
    E --> F((4444642300))
    F --> E
    E --> C
    E --> A
  
```

## Contact Us

For more information visit [www.trinamix.com](http://www.trinamix.com) or send e-mail to [marketing@trinamix.com](mailto:marketing@trinamix.com) to speak to an expert.

