



### SAP Easy Access



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SAP Production Planning & Distribution  
in S/4 2020  
Alternative (Substitute) Components  
with Usage Probability



SAP

1. **Strategy 1 (Manual Maintenance/by Usage Probability).**
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. Strategy 1 manual change probability in Production order.
5. Strategy 2 (100% check).
6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.



SAP

### Strategy 1 (Manual Maintenance/by Usage Probability)

Material	Usage Probability	Prod. quantity	stock	Production Order			
				ATP1	ATP2	ATP3	ATP4
				Material Availability result			
T-R125	50%	70		30	43	50	75
T-R126	30%	90		18	26	30	45
T-R127	20%	50		12	17	20	30

### Strategy 2 (100% check)

Material	Usage Probability	Prod. quantity	stock	Production Order			
				ATP1	ATP2	ATP3	ATP4
				Material Availability result			
T-R125	50%	70		60	0	50	75
T-R126	30%	90		0	85	30	45
T-R127	20%	50		0	0	20	30



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1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. **Strategy 1 setup BOM.**
3. Strategy 1 check stock and simulate case.
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6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.

### Change material BOM: General Item Overview

Subitems | New Entries | Header Details | Validity

Material: T-F125 Extreme Group 25

Plant: 1010 Hamburg

Alternative BOM: 1

Position Effectivity Initial Screen

Material | Document | General

Item	ICt	Component	Component description	Quantity	U...	A...	SIs	Valid From	Valid to	P...
0010	L	T-S125	Frame Group 25	1	PC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29.02.2016	31.12.9999	<input type="checkbox"/>
0020	L	T-S225	Wheel Group 25	2	PC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29.02.2016	31.12.9999	<input type="checkbox"/>
0030	L	T-R125	Chain Group 25	1	PC	<input type="checkbox"/>	<input type="checkbox"/>	29.02.2016	31.12.9999	<input type="checkbox"/>
0030	L	T-R126	Chain Group 26	1	PC	<input type="checkbox"/>	<input type="checkbox"/>	25.11.2021	31.12.9999	<input type="checkbox"/>
0030	L	T-R127	Chain Group 27	1	PC	<input type="checkbox"/>	<input type="checkbox"/>	25.11.2021	31.12.9999	<input type="checkbox"/>
0040	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0050	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0060	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0070	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0080	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0090	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0100	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0110	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0120	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
0130	L					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>

3 Alternative Components

### Change material BOM: Item: All data

Reference items Subitems Long Text

Material: T-F125  
 Plant: 1010 Hamburg  
 Alternative BOM: 1

**Strategy 1 (Manual Maintenance/by Usage Probability)**  
 Production Order

Material	Prod. quantity	60	85	100	150	
	stock	ATP1	ATP2	ATP3	ATP4	
<b>Material Availability result</b>						
T-R125	50%	70	30	43	50	75
T-R126	30%	90	18	26	30	45
T-R127	20%	50	12	17	20	30

Basic Data Status/Long Text Administration

Component: T-R125  
 Chain Group 25  
 Item category: L Stock item  
 Item ID: 00000003  
 Sort String:   
 Sub-item ID:

**Quantity Data**  
 Quantity: 1  
 Operation scrap in %:   
 Net ID:

**General Data**  
 Co-product:  Recurs. allowed:  Lead-time onset:   
 AltItemGroup: 1  Recursive:  Oper. LT offset:   
 Discontin. data:  CAD Indicator:  Distribution key:   
 ALE indicator:  Phantom item:

**Alternative Item Data**

AltItemGroup: 1  
 Priority: 1  
 Strategy: 1 Manual maintenance/by usage pr  
 Usage Prob.: 50

## Change material BOM: Item: All data

Reference items Subitems Long T

Material T-F125  
 Plant 1010 Hamburg  
 Alternative BOM 1

Basic Data Status/Long Text Administration

Item Number 0030  
 Component T-R126  
 Chain Group 26  
 Item category L Stock item  
 Item ID 00000004  
 Sort String  
 Sub-item ID

### Quantity Data

Quantity 1  
 Operation scrap in %  
 Net ID

### General Data

Co-product  Recurs. allowed   
 AltItemGroup 1  Recursive  
 Discontin. data CAD Indicator

### MRP Data

Lead-time offset  
 Oper. LT offset  
 Distribution key

### Strategy 1 (Manual Maintenance/by Usage Probability)

		Production Order			
Material	Prod. quantity stock	60 ATP1	85 ATP2	100 ATP3	150 ATP4
Material Availability result					
T-R125	50% 70	30	43	50	75
<b>T-R126</b>	<b>30% 90</b>	18	26	30	45
T-R127	20% 50	12	17	20	30

Alternative Item Data

AltItemGroup

Priority

Strategy  Manual maintenance/by usage pr

Usage Prob.

### Change material BOM: Item: All data

Reference items Subitems Long Text

Material: T-F125  
 Plant: 1010 Hamburg  
 Alternative BOM: 1

Basic Data Status/Long Text Administration Do

Item Number: 0030  
 Component: T-R127  
 Chain Group 27  
 Item category: L Stock item  
 Item ID: 00000005  
 Sort String:   
 Sub-item ID:

Quantity Data  
 Quantity: 1  
 Operation scrap in %:   
 Net ID:

General Data  
 Co-product:  Recurs. allowed:   
 AltItemGroup: 1  Recursive:   
 Discontin. data:  CAD Indicator:

MRP Data  
 Lead-time offset:   
 Oper. LT offset:    
 Distribution key:

### Strategy 1 (Manual Maintenance/by Usage Probability)

		Production Order			
Material	Prod. quantity stock	60 ATP1	85 ATP2	100 ATP3	150 ATP4
Material Availability result					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
<b>T-R127</b>	<b>20% 50</b>	12	17	20	30

Alternative Item Data

AltItemGroup:

Priority:

Strategy:  Manual maintenance/by usage pr

Usage Prob.:





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6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.

## Display Warehouse Stocks of Material

Material	Material description			Plnt Name 1		
SLoc SL	Unrestricted Unit	Transit/Transf. Quality Inspection	Restricted-Use	Blocked		
	Total Value Crcy	Total Value	Total Value	Total Value	Total Value	
<b>T-R125</b>						
Chain Group 25			1010 Hamburg			
101A	70 PC	0	0	0	0	
	115.50 EUR	0.00	0.00	0.00	0.00	
<b>T-R126</b>						
Chain Group 26			1010 Hamburg			
101A	90 PC	0	0	0	0	
	148.50 EUR	0.00	0.00	0.00	0.00	
<b>T-R127</b>						
Chain Group 27			1010 Hamburg			
101A	50 PC					
	82.50 EUR					
<b>* Total</b>						
	346.50 EUR					

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30



## Production order Create: Header

Material Capacity Operations **Components** Documents Sequences

Order: 000000000001 | Type: PP01  
 Material: T-F125 | Extreme Group 25 | Plant: 1010  
 Status: CRTD MANCSETC

Production qty 60

General Assignment Goods Re... Master Data Long Text Administration Items Fast Entry

Quantities  
 Total Qty: **60** | PC | Scrap Portion: 0.00  
 Delivered: 0 | Short/Exc. Rcpt: 0

Dates/Times  
 Basic Dates: End 22.12.2021 00:00, Start 10.12.2021  
 Scheduled: 21.12.2021 16:00  
 Confirmed:

Scheduling  
 Type: 2 Backwards  
 Reduction: No reduction  
 Note: No scheduling  
 Priority:

**Strategy 1 (Manual Maintenance/by Usage Probability)**  
 Production Order

Material	Prod. quantity	stock	60	85	100	150
			ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>						
T-R125	50%	70	30	43	50	75
T-R126	30%	90	18	26	30	45
T-R127	20%	50	12	17	20	30

## Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: %000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

Perform Availability check and review results

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B...
0010	T-S125	Frame Group 25	60	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	120	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	18	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	12	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30

### Production order Create: Header

Material Capacity Operations **Components** Documents Sequences

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010  
 Status: CRTD MANC SETC

Production qty 85

85

Quantities

Total Qty	85	PC	Scrap Portion	0.00
Delivered	0		Short/Exc. Rcpt	0

Dates/Times

	Basic Dates		Scheduled		Confirmed
End	22.12.2021	00:00	21.12.2021	16:00	
Start	07.12.2021				
Release					

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30



## Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

Perform Availability check and review results

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B..
0010	T-S125	Frame Group 25	85	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	170	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	43	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	26	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	17	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
Material Availability result					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30

### Production order Create: Header

Order: 000000000001  
 Material: T-F125  
 Status: CRTD MANC SETC  
 Type: PP01  
 Plant: 1010

Production qty  
100

100

Quantities

Total Qty: 100 PC Scrap Portion: 0.00 %  
 Delivered: 0 Short/Exc. Rcpt: 0

Dates/Times

Basic Dates: End 22.12.2021 00:00, Start 03.12.2021  
 Scheduled: 21.12.2021 16:00  
 Confirmed:

Scheduling

Type: 2 Backwards  
 Reduction: No reduction  
 Note: No scheduling  
 Priority:

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30

### Production Order Create: Component Overview

Order: 000000000001 Type: PP01  
 Material: T-F125 Plant: 1010  
 Extreme Group 25

Perform Availability check and review results

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A...	B...
0010	T-S125	Frame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	20	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
Material Availability result					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30



### Production order Create: Header

Order: 000000000001 | Type: PP01  
 Material: T-F125 | Plant: 1010  
 Status: CRTD MANCSETC

Production qty  
150

150

Quantities  
 Total Qty: 150 PC Scrap Portion: 0.00 %  
 Delivered: 0 Short/Exc. Rcpt: 0

Dates/Times  
 Basic Dates: End 22.12.2021 00:00, Start 25.11.2021  
 Scheduled: 21.12.2021 16:00  
 Confirmed:

Scheduling  
 Type: 2 Backwards  
 Reduction: No reduction  
 Note: No scheduling  
 Priority:

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
<b>Material Availability result</b>					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30

## Production Order Create: Component Overview

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

Perform Availability check and review results

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A.
0010	T-S125	Frame Group 25	150	PC	L	0010	0	1010	101A				
0020	T-S225	Wheel Group 25	300	PC	L	0010	0	1010	101A				
0030	T-R125	Chain Group 25	75	PC	L	0010	0	1010	101A				
0030	T-R126	Chain Group 26	45	PC	L	0010	0	1010	101A				
0030	T-R127	Chain Group 27	30	PC	L	0010	0	1010	101B				
0040													
0050													
0060													
0070													
0080													
0090													
0100													
0110													
0120													
0130													
0140													
0150													

**Strategy 1 (Manual Maintenance/by Usage Probability)**

Production Order

Material	Prod. quantity	60	85	100	150
	stock	ATP1	ATP2	ATP3	ATP4
Material Availability result					
T-R125	50% 70	30	43	50	75
T-R126	30% 90	18	26	30	45
T-R127	20% 50	12	17	20	30



SAP

1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. **Strategy 1 manual change probability in Production order.**
5. Strategy 2 (100% check).
6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.

### Production order Create: Header

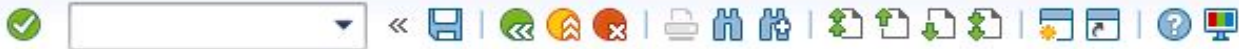
Order	000000000001	Type	PP01	
Material	T-F125	Extreme Group 25	Plant	1010
Status	CRTD MANC SETC			

in this simulation, we use production order qty of 150

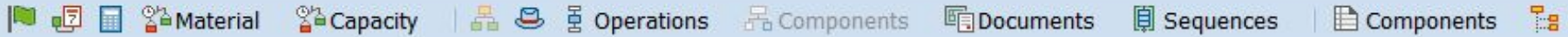
Quantities				
Total Qty	150	PC	Scrap Portion	0.00 %
Delivered	0		Short/Exc. Rcpt	0

Dates/Times					
	Basic Dates		Scheduled		Confirmed
End	22.12.2021	00:00	21.12.2021	16:00	
Start	25.11.2021	00:00	25.11.2021	08:52	00:00
Release			25.11.2021		

Scheduling		Floats	
Type	2 Backwards	Sched. Margin Key	000
Reduction	No reduction carried out	Float Bef. Prdn	Workdays
Note	No scheduling note	Float After Prdn	Workdays
Priority		Release Period	Workdays

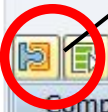


## Production Order Create: Component Overview



Order: %00000000 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

Goto component detail



Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

### Component Overview

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A.
0010	T-S125	Frame Group 25	150	PC	L	0010	0	1010	101A				
0020	T-S225	Wheel Group 25	300	PC	L	0010	0	1010	101A				
0030	T-R125	Chain Group 25	75	PC	L	0010	0	1010	101A				
0030	T-R126	Chain Group 26	45	PC	L	0010	0	1010	101A				
0030	T-R127	Chain Group 27	30	PC	L	0010	0	1010	101B				
0040													
0050													
0060													
0070													
0080													
0090													
0100													
0110													
0120													
0130													
0140													
0150													

Strategy 1

T-R125	50%	150	75
T-R126	30%	45	45
T-R127	20%	30	30

### Production Order Create: Component Overview

Order: 000000000001      Type: PP01  
 Material: T-F125      Extreme Group 2  
 Operation: 0010      Assembly

**Component**

Material: T-R125  
 Chain Group 25  
 Item: 0030    Item Cat.: L  
 Stor. Loc.: 101A    Status: CRTD  
 Batch:    Item ID: 0000000  
 Plant: 1010  
 Goods Recipient:    Unloading Point:     
 Reservation: 1197    3    Movement type: 261  
 Revision Level:    Sort String:     
 D/C Indicator: H Credit

**Quantities**

Requirement Qty: 75    Unit of Measure: PC     Fixed Qty.  
 Committed Qty: 0    Operation Scrap: 0.00     Net Indicator  
 Withdrawal Qty: 0    Component Scrap: 0.00     Final issue  
 Original Qty: 150.000    Base Unit: PC    Usage Prob.: 50

**Dates/Times**

Strategy 1		new probability
T-R125	50%	40%
T-R126	30%	60%
T-R127	20%	0%

**Usage Prob. 40**

PC     Fixed Qty.  
 0.00     Net Indicator  
 0.00     Final issue  
 PC    Usage Prob. 40

### Production Order Create: Component Overview

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 2  
 Operation: 0010 Assembly

Component

Material: T-R126  
 Chain Group 26  
 Item: 0030 Item Cat. L  
 Stor. Loc.: 101A Status: CRTD  
 Batch: [ ] Item ID: 00000004  
 Plant: 1010  
 Goods Recipient: [ ] Unloading Point: [ ]  
 Reservation: 1197 4 Movement type: 261  
 Revision Level: [ ] Sort String: [ ]  
 D/C Indicator: H Credit

Quantities

Requirement Qty: 45 Unit of Measure: PC  
 Committed Qty: 0 Operation Scrap: 0.00  
 Withdrawal Qty: 0 Component Scrap: 0.00  
 Original Qty: 150.000 Base Unit: PC  
 Usage Prob. [30]

Dates/Times

Strategy 1		new probability
T-R125	50%	40%
T-R126	30%	60%
T-R127	20%	0%

Usage Prob. [60]

Usage Prob. [30]

### Production Order Create: Component Overview

Order: %000000000001      Type: PP01

Material: T-F125      Extreme Group 2

Operation: 0010      Assembly

#### Component

Material: T-R127

Chain Group 27

Item: 0030    Item Cat.: L

Stor. Loc.: 101B    Status: CRTD

Batch:    Item ID: 00000005

Plant: 1010

Goods Recipient:    Unloading Point:   

Reservation: 1197    5    Movement type: 261

Revision Level:    Sort String:   

D/C Indicator: H Credit

#### Quantities

Requirement Qty: 30    Unit of Measure: PC

Committed Qty: 0    Operation Scrap: 0.00

Withdrawal Qty: 0    Component Scrap: 0.00

Original Qty: 150.000    Base Unit: PC

Strategy 1		
T-R125	50%	new probability 40%
T-R126	30%	60%
<b>T-R127</b>	<b>20%</b>	<b>0%</b>

Fixed Qty.

Net Indicator

Final issue

Usage Prob.

Fixed Qty.

Net Indicator

Final issue

Usage Prob.

#### Dates/Times



## Production Order Create: Component Overview

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

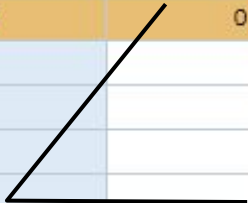
Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..
0010	T-S125	Frame Group 25	150	PC	L	0010	0	1010	101A				<input type="checkbox"/>
0020	T-S225	Wheel Group 25	300	PC	L	0010	0	1010	101A				<input type="checkbox"/>
0030	T-R125	Chain Group 25	60	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>
0030	T-R126	Chain Group 26	90	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>
0030	T-R127	Chain Group 27	0	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>
0040													<input type="checkbox"/>
0050													<input type="checkbox"/>
0060													<input type="checkbox"/>
0070													<input type="checkbox"/>
0080													<input type="checkbox"/>
0090													<input type="checkbox"/>
0100													<input type="checkbox"/>
0110													<input type="checkbox"/>
0120													<input type="checkbox"/>
0130													<input type="checkbox"/>
0140													<input type="checkbox"/>
0150													<input type="checkbox"/>

Strategy 1

T-R125	50%	40%	<b>60</b>
T-R126	30%	60%	<b>90</b>
T-R127	20%	0%	<b>0</b>

new probability (new qty)





SAP

1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. Strategy 1 manual change probability in Production order.
- 5. Strategy 2 (100% check).**
6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.



SAP

### Strategy 1 (Manual Maintenance/by Usage Probability)

Material	Usage Probability	Prod. quantity	stock	Production Order			
				ATP1	ATP2	ATP3	ATP4
				Material Availability result			
T-R125	50%	70		30	43	50	75
T-R126	30%	90		18	26	30	45
T-R127	20%	50		12	17	20	30

### Strategy 2 (100% check)

Material	Usage Probability	Prod. quantity	stock	Production Order			
				ATP1	ATP2	ATP3	ATP4
				Material Availability result			
T-R125	50%	70		60	0	50	75
T-R126	30%	90		0	85	30	45
T-R127	20%	50		0	0	20	30



SAP

1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. Strategy 1 manual change probability in Production order.
5. Strategy 2 (100% check).
6. **Strategy 2 setup BOM.**
7. Strategy 2 check stock and simulate case.
8. Strategy 2 manual change probability in Production order.





### Change material BOM: Item: All data

Reference items Subitems Long Text

Material: T-F125  
 Plant: 1010 Hamburg  
 Alternative BOM: 1

Extreme Group 25

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30

Basic Data Status/Long Text Administration

BOM item

Item Number: 0030

Component: T-R125

Chain Group 25

Item category: L Stock item

Item ID: 00000003

Sort String

Sub-item ID

Quantity Data

Quantity: 1

Operation scrap in %

Net ID

General Data

Co-product  Recurs. allowed

AltItemGroup: 1  Recursive

MRP Data

Lead-time offset

Oper. LT offset

Alternative Item Data

AltItemGroup: 1

Priority: 1

Strategy: 2 100% check

Usage Prob.: 50

## Change material BOM: Item: All data

Reference items Subitems Long Text

Material: T-F125 Extreme Group 25  
 Plant: 1010 Hamburg  
 Alternative BOM: 1

### Strategy 2 (100% check)

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
<b>T-R126</b>	<b>30% 90</b>	0	85	30	45
T-R127	20% 50	0	0	20	30

Basic Data Status/Long Text Administration

#### BOM item

Item Number: 0030  
 Component: T-R126  
 Chain Group 26  
 Item category: L Stock item  
 Item ID: 00000004  
 Sort String:  
 Sub-item ID:

#### Quantity Data

Quantity: 1  
 Operation scrap in %:  
 Net ID:

#### General Data

Co-product:  Recurs. allowed:   
 AltItemGroup: 1  Recursive:

#### MRP Data

Lead-time offset:  
 Oper. LT offset:

#### Alternative Item Data

AltItemGroup: 1  
 Priority: 2  
 Strategy: 2 100% check  
 Usage Prob.: 30



### Change material BOM: Item: All data

Reference items Subitems Long Text

Material: T-F125 Extreme Group 25  
 Plant: 1010 Hamburg  
 Alternative BOM: 1

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
<b>T-R127</b>	<b>20% 50</b>	0	0	20	30

Basic Data Status/Long Text Administration

BOM item

Item Number: 0030

Component: T-R127

Chain Group 27

Item category: L Stock item

Item ID: 00000005

Sort String

Sub-item ID

Quantity Data

Quantity: 1

Operation scrap in %

Net ID

General Data

Co-product  Recurs. allowed

AltItemGroup: 1 Recursive

MRP Data

Lead-time offset

Oper. LT offset

**Alternative Item Data**

AltItemGroup: 1

Priority: 3

Strategy: 2 100% check

Usage Prob.: 20





SAP

1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. Strategy 1 manual change probability in Production order.
5. Strategy 2 (100% check).
6. Strategy 2 setup BOM.
7. **Strategy 2 check stock and simulate case.**
8. Strategy 2 manual change probability in Production order.

### Display Warehouse Stocks of Material

Material	Material description			Plnt Name 1		
SLoc SL	Unrestricted Unit	Transit/Transf. Quality Inspection	Restricted-Use	Blocked		
	Total Value Crcy	Total Value	Total Value	Total Value	Total Value	
<b>T-R125</b>						
Chain Group 25			1010 Hamburg			
101A	70 PC	0	0	0	0	
	115.50 EUR	0.00	0.00	0.00	0.00	
<b>T-R126</b>						
Chain Group 26			1010 Hamburg			
101A	90 PC	0	0	0	0	
	148.50 EUR	0.00	0.00	0.00	0.00	
<b>T-R127</b>						
Chain Group 27			1010 Hamburg			
101A	50 PC	0	0	0	0	
	82.50 EUR	0.00	0.00	0.00	0.00	
<b>* Total</b>						
	346.50 EUR					

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30

### Production order Create: Header

Order: 000000000001  
 Material: T-F125  
 Status: CRTD MANCSETC  
 Type: PP01  
 Plant: 1010

Production qty 60

60

Quantities

Total Qty: 60 PC Scrap Portion: 0.00 %  
 Delivered: 0 Short/Exc. Rcpt: 0

Dates/Times

	Basic Dates		Scheduled		Confirmed	
End	22.12.2021	00:00	21.12.2021	16:00		
Start	10.12.2021	00:00	10.12.2021	11:07		00:00
Release						

Scheduling

Type: 2 Backwards  
 Reduction: No reduction car  
 Note: No scheduling n  
 Priority:

**Strategy 2 (100% check)**

		Production Order				
		Prod. quantity	60	85	100	150
		Material Availability result				
Material	stock	ATP1	ATP2	ATP3	ATP4	
T-R125	50% 70	60	0	50	75	
T-R126	30% 90	0	85	30	45	
T-R127	20% 50	0	0	20	30	

### Production Order Create: Component Overview

Order: 8000000000001 Type: PP01  
Material: T-F125 Plant: 1010

Perform Availability check

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B...
0010	T-S125	Frame Group 25	60	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	120	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	18	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	12	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

### Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125 Extreme Group 25

PP01  
1010

1st check T-R125 based on Priority, and stock for T-R125 is 70, this is enough for Requirement of 60

Filter: NO\_FIL No Filter | Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B...
0010	T-S125	ame Group 25	60	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	120	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	60	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	0	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	0	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

**Strategy 2 (100% check)**

	Prod. quantity	Production Order	85	100	150
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30

### Production order Create: Header

Material Capacity Operations **Components** Documents Sequences

Order: 000000000001 Type: PP01  
 Material: T-F125 Plant: 1010  
 Status: CRTD MANC/SETC

Production qty 85

85

Quantities

Total Qty	85	PC	Scrap Portion	0.00 %
Delivered	0		Short/Exc. Rcpt	0

Dates/Times

	Basic Dates		Scheduled		Confirmed	
End	22.12.2021	00:00	21.12.2021	16:00		
Start	07.12.2021	00:00	07.12.2021	10:00		00:00

Scheduling

Type: 2 Backwards  
 Reduction: No reduction ca  
 Note: No scheduling n  
 Priority:

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30



### Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: 000000000001 Type: PP01  
Material: T-F125 Plant: 1010

Perform Availability check

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B..
0010	T-S125	Frame Group 25	85	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	170	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	43	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	26	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	17	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

### Production Order Create: Component Overview

Material Capacity Operations Components Docu

Order: 000000000001  
 Material: T-F125 Extreme Group 25

Component Filter NO

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B..
0010	T-S125	ame Group 25	85	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	170	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	0	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	85	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	0	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

Requirement is 85, 1st check T-R125 with stock 70 (not enough and need 100%); therefore system check next priority material T-R126 where stock 90 can cover requirement and therefore system can confirm 85 requirement

**Strategy 2 (100% check)**

	Prod. quantity	Production Order	60	85	100	150
Material	stock	ATP1	ATP2	ATP3	ATP4	
T-R125	50% 70	60	0	50	75	
T-R126	30% 90	0	85	30	45	
T-R127	20% 50	0	0	20	30	



### Production order Create: Header

Material Capacity Operations **Components** Documents Sequences

Order: 000000000001  
 Material: T-F125  
 Status: CRTD MANC/SETC  
 Type: PP01  
 Plant: 1010

Production qty  
100

General Assignment Goods Re... Master Data Long Text Administration Items Fast Entry

Quantities  
 Total Qty: 100  
 Delivered: 0  
 Scrap Portion: 0.00 %  
 Short/Exc. Rcpt: 0

Dates/Times  
 Basic Dates: End 22.12.2021 00:00, Start 03.12.2021 00:00  
 Scheduled: 21.12.2021 16:00, 03.12.2021 11:07  
 Confirmed: 00:00

Scheduling  
 Type: 2 Backwards  
 Reduction: No reduction can...  
 Note: No scheduling n...  
 Priority:

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30



### Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: 8000000000001 Type: PP01  
Material: T-F125 Plant: 1010

Perform Availability check

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B...
0010	T-S125	ame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	20	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

### Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125  
 Extreme Group 25

Component Overview

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B...
0010	T-S125	ame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	20	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

Requirement is 100 BUT any of the materials stocks cannot cover in FULL quantity (only partial from each) BUT strategy is 2 (100% check meaning need 1 single material to cover the requirement), therefore system use Probability to calculate ratio for each material

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30

### Production order Create: Header

Order: 000000000001 Type: PP01  
 Material: T-F125 Plant: 1010  
 Status: CRTD MANC/SETC

Production qty  
150

Quantities

Total Qty: **150** PC Scrap Portion: 0.00 %  
 Delivered: 0 Short/Exc. Rcpt: 0

Dates/Times

	Basic Dates		Scheduled		Confirmed	
End	22.12.2021	00:00	21.12.2021	16:00		
Start	25.11.2021	00:00	25.11.2021	08:52		00:00

Scheduling

Type: 2 Backwards  
 Reduction: No reduction ca...  
 Note: No scheduling n...  
 Priority:

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30



### Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: 0000000000001 Type: PP01  
Material: T-F125 Plant: 1010

Perform Availability check

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B..
0010	T-S125	Chain Group 25	150	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	300	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	75	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	45	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	30	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

### Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125 Extreme Group 25

Component: [Component] Filter: N

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B..
0010	T-S125	ame Group 25	150	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0020	T-S225	Wheel Group 25	300	PC	L	0010	0	1010	101A				<input type="checkbox"/>	<input type="checkbox"/>
0030	T-R125	Chain Group 25	75	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R126	Chain Group 26	45	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0030	T-R127	Chain Group 27	30	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	<input type="checkbox"/>
0040													<input type="checkbox"/>	<input type="checkbox"/>
0050													<input type="checkbox"/>	<input type="checkbox"/>
0060													<input type="checkbox"/>	<input type="checkbox"/>
0070													<input type="checkbox"/>	<input type="checkbox"/>
0080													<input type="checkbox"/>	<input type="checkbox"/>
0090													<input type="checkbox"/>	<input type="checkbox"/>
0100													<input type="checkbox"/>	<input type="checkbox"/>
0110													<input type="checkbox"/>	<input type="checkbox"/>
0120													<input type="checkbox"/>	<input type="checkbox"/>
0130													<input type="checkbox"/>	<input type="checkbox"/>
0140													<input type="checkbox"/>	<input type="checkbox"/>
0150													<input type="checkbox"/>	<input type="checkbox"/>

Requirement is 150 BUT any of the materials stocks cannot cover in FULL quantity (only partial from each) BUT strategy is 2 (100% check meaning need 1 single material to cover the requirement), therefore system use Probability to calculate ratio for each material

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30



SAP

1. Strategy 1 (Manual Maintenance/by Usage Probability).
2. Strategy 1 setup BOM.
3. Strategy 1 check stock and simulate case.
4. Strategy 1 manual change probability in Production order.
5. Strategy 2 (100% check).
6. Strategy 2 setup BOM.
7. Strategy 2 check stock and simulate case.
8. **Strategy 2 manual change probability in Production order.**

### Production order Create: Header

Material Capacity Operations **Components** Documents Sequences

Order: 000000000001  
 Material: T-F125  
 Status: CRTD MANC/SETC  
 Type: PP01  
 Plant: 1010

Production qty  
100

General Assignment Goods Re... Master Data Long Text Administration Items Fast Entry

Quantities  
 Total Qty: 100  
 Delivered: 0  
 Scrap Portion: 0.00 %  
 Short/Exc. Rcpt: 0

Dates/Times  
 Basic Dates: End 22.12.2021 00:00, Start 03.12.2021 00:00  
 Scheduled: 21.12.2021 16:00, 03.12.2021 11:07  
 Confirmed: 00:00

Scheduling  
 Type: 2 Backwards  
 Reduction: No reduction can...  
 Note: No scheduling n...  
 Priority:

**Strategy 2 (100% check)**

		Production Order			
		60	85	100	150
		Material Availability result			
Material	stock	ATP1	ATP2	ATP3	ATP4
T-R125	50% 70	60	0	50	75
T-R126	30% 90	0	85	30	45
T-R127	20% 50	0	0	20	30



### Production Order Create: Component Overview

Order: 000000000001 Type: PP01  
 Material: T-F125 Extreme Group 25 Plant: 1010

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A.. B
0010	T-S125	Frame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>
0030	T-R126	Chain Group 26	30	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>
0030	T-R127	Chain Group 27	20	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>
0040													<input type="checkbox"/>
0050													<input type="checkbox"/>
0060													<input type="checkbox"/>
0070													<input type="checkbox"/>
0080													<input type="checkbox"/>
0090													<input type="checkbox"/>
0100													<input type="checkbox"/>
0110													<input type="checkbox"/>
0120													<input type="checkbox"/>
0130													<input type="checkbox"/>
0140													<input type="checkbox"/>
0150													<input type="checkbox"/>

we will now change the Usage Probability

**Strategy 2 (100% check)**

Production Order 100  
 Material Availability result

Material	stock	new-ratio
T-R125	50% 70	50%
T-R126	30% 90	50%
T-R127	20% 50	0%

### Production Order Create: Component Overview

Order	000000000001	Type	PP01
Material	T-F125	Extreme Group 25	Plant 1010
Operation	0010	Assembly	Sequence 0

**Strategy 2 (100% check)**

		Production Order	
		100	
		Material Availability result	
Material	stock	new-ratio	
T-R125	50% 70	50%	
T-R126	30% 90	50%	
T-R127	20% 50	0%	

Component

Material: T-R125

Chain Group 25

Item: 0030 Item Cat. L

Stor. Loc.: 101A

Batch:

Plant: 1010

Goods Recipient:

Reservation: 1202 3

Revision Level:

D/C Indicator: H Credit

Quantities

Requirement Qty	50	Unit of Measure	PC	<input type="checkbox"/> Fixed Qty.
Committed Qty	0	Operation Scrap	0.00	<input type="checkbox"/> Net Indicator
Withdrawal Qty	0	Component Scrap	0.00	<input type="checkbox"/> Final issue
Original Qty	100.000	Base Unit	PC	Usage Prob.

no change needed for T-R125

50

### Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125  
 Operation: 0010

**Strategy 2 (100% check)**

Production Order 100  
 Material Availability result

Material	stock	new-ratio
T-R125	50% 70	50%
<b>T-R126</b>	<b>30%</b> 90	<b>50%</b>
T-R127	20% 50	0%

General Data Purch. Data V-S Itm Data Co-Pro

Component  
 Material: T-R126  
 Chain Group 26  
 Item: 0030 Item Cat. L  
 Stor. Loc.: 101A  
 Batch:  
 Plant: 1010  
 Goods Recipient:  
 Reservation: 1202 4  
 Revision Level:  
 D/C Indicator: H Credit

Status: CRTD  
 Item ID: 00000004  
 Unloading Point:  
 Movement type: 261  
 Sort String:

Usage Prob. 50

Quantities  
 Requirement Qty: 30  
 Committed Qty: 0  
 Withdrawal Qty: 0  
 Original Qty: 100.000

Unit of Measure: PC  
 Operation Scrap: 0.00  
 Component Scrap: 0.00  
 Base Unit: PC  
 Usage Prob. 30

Dates/Times

## Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125  
 Operation: 0010

### Strategy 2 (100% check)

Production Order  
 100  
 Material Availability result

Material	stock	new-ratio
T-R125	50% 70	50%
T-R126	30% 90	50%
T-R127	20% 50	0%

General Data | Purch. Data | V-S Itm Data | Co-Pro

Component

Material: T-R127

Chain Group 27

Item: 0030 Item Cat. L

Stor. Loc.: 101B Status: CRTD

Batch: Unloading Point:

Plant: 1010 Item ID: 00000005

Goods Recipient: Movement type: 261

Reservation: 1202 5 Sort String:

Revision Level: D/C Indicator: H Credit

Quantities

Requirement Qty: 20 Unit of Measure: PC

Committed Qty: 0 Operation Scrap: 0.00

Withdrawal Qty: 0 Component Scrap: 0.00

Original Qty: 100.000 Base Unit: PC

Usage Prob.: 20

Fixed Qty.  
 Net Indicator  
 Final issue  
 Usage Prob. 0



### Production Order Create: Component Overview

Material Capacity Operations Components Documents Sequences Components

Order: 800000000001 Type: PP01  
Material: T-F125 Plant: 1010

Perform Availability check

Filter: NO\_FIL No Filter Sorting: ST\_STA Standard

Item	Component	Description	Reqmt Qty	U...	L...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B
0010	T-S125	Frame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>	
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>	
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	
0030	T-R126	Chain Group 26	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	
0030	T-R127	Chain Group 27	0	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	
0040													<input type="checkbox"/>	
0050													<input type="checkbox"/>	
0060													<input type="checkbox"/>	
0070													<input type="checkbox"/>	
0080													<input type="checkbox"/>	
0090													<input type="checkbox"/>	
0100													<input type="checkbox"/>	
0110													<input type="checkbox"/>	
0120													<input type="checkbox"/>	
0130													<input type="checkbox"/>	
0140													<input type="checkbox"/>	
0150													<input type="checkbox"/>	

### Production Order Create: Component Overview

Order: 000000000001  
 Material: T-F125 Extreme Group 25

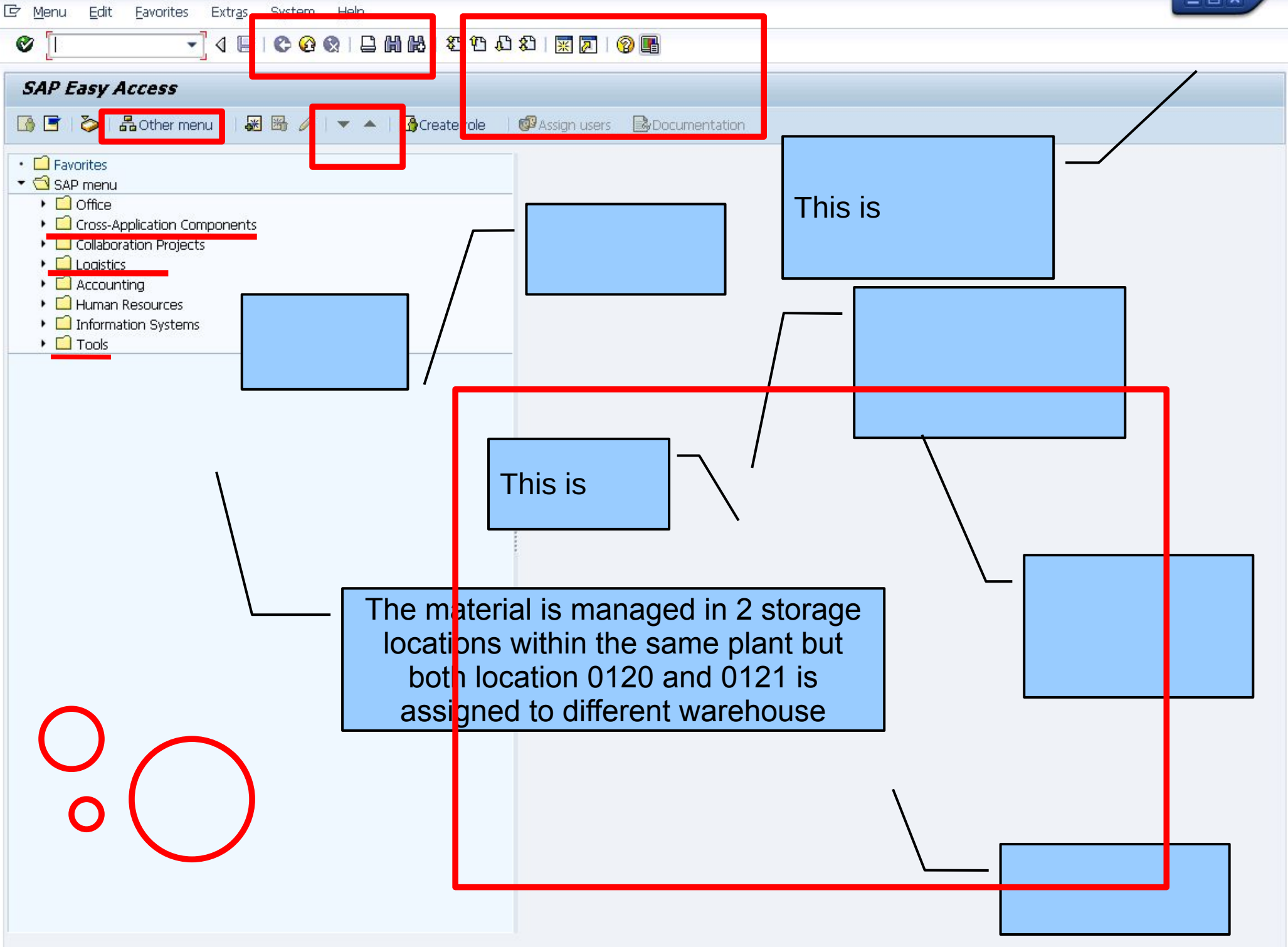
Component Filter: N

Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	Sto...	Reqmnt Segment	Stock Segment	Batch	A..	B
0010	T-S125	ame Group 25	100	PC	L	0010	0	1010	101A				<input type="checkbox"/>	
0020	T-S225	Wheel Group 25	200	PC	L	0010	0	1010	101A				<input type="checkbox"/>	
0030	T-R125	Chain Group 25	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	
0030	T-R126	Chain Group 26	50	PC	L	0010	0	1010	101A				<input checked="" type="checkbox"/>	
0030	T-R127	Chain Group 27	0	PC	L	0010	0	1010	101B				<input checked="" type="checkbox"/>	
0040													<input type="checkbox"/>	
0050													<input type="checkbox"/>	
0060													<input type="checkbox"/>	
0070													<input type="checkbox"/>	
0080													<input type="checkbox"/>	
0090													<input type="checkbox"/>	
0100													<input type="checkbox"/>	
0110													<input type="checkbox"/>	
0120													<input type="checkbox"/>	
0130													<input type="checkbox"/>	
0140													<input type="checkbox"/>	
0150													<input type="checkbox"/>	

Requirement is 100 BUT any of the materials stocks cannot cover in FULL quantity (only partial from each) BUT strategy is 2 (100% check meaning need 1 single material to cover the requirement), therefore system use Probability to calculate ratio for each material

**Strategy 2 (100% check)**

				Production Order	
				100	
				Material Availability result	
Material	stock		new-ratio		
T-R125	50% 70		50%	50	
T-R126	30% 90		50%	50	
T-R127	20% 50		0%	0	



### SAP Easy Access



- Favorites
- ▼ SAP menu
  - ▶ Office
  - ▶ Cross-Application Components
  - ▶ Collaboration Projects
  - ▶ Logistics
  - ▶ Accounting
  - ▶ Human Resources
  - ▶ Information Systems
  - ▶ Tools

This is

This is

The material is managed in 2 storage locations within the same plant but both location 0120 and 0121 is assigned to different warehouse

