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## 1 Inventory Overview

Taking the SMI Overview you - as a supplier - can check the requirement and inventory situation at any time. You are able to set you individual needs for the planning period of time and the scheduling for it.

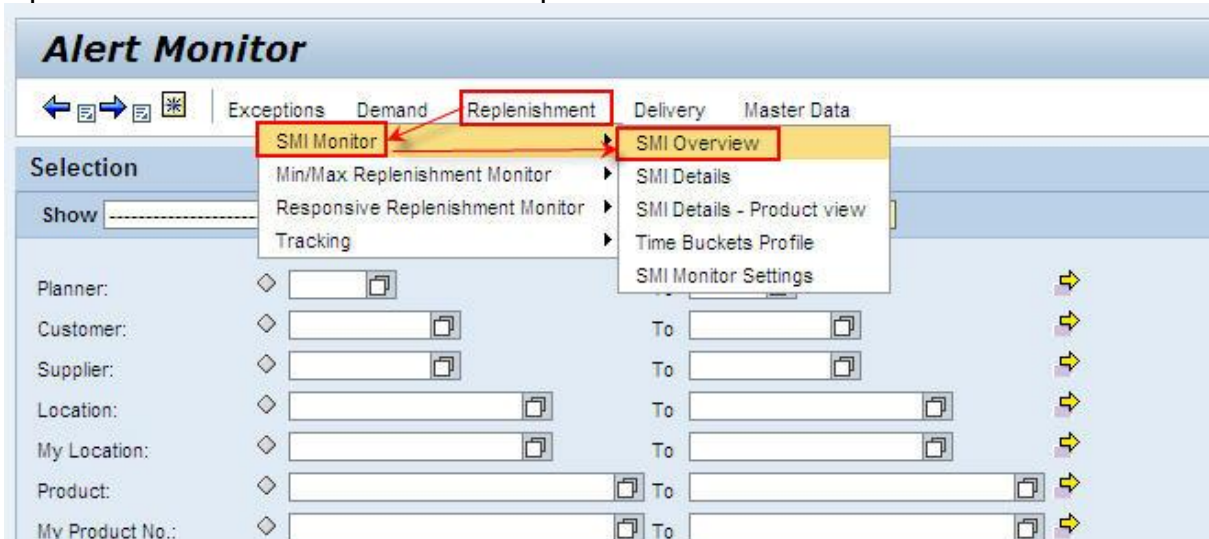
As a supplier you use inventory details in order to schedule the quantities you intend to deliver to your customers. The most important key figure for your scheduling is the inventory projected which provides information about the requirement and inventory balance in a period of time. According to the inventory projected you have to match it to the scenario. As an example, in a **SMI (Supplier Management Inventory)** scenario the stock projected should range between the minimum and maximum stock which your customer has agreed with you.

If the stock projected of a period shows a critical value, this period will be color-coded. As a customer or supplier you will immediately recognize where problems occur. The color code indicates the character of the problem, e.g. "orange" for shortfall of the minimum stock level or "blue" for exceeding the maximum stock level.

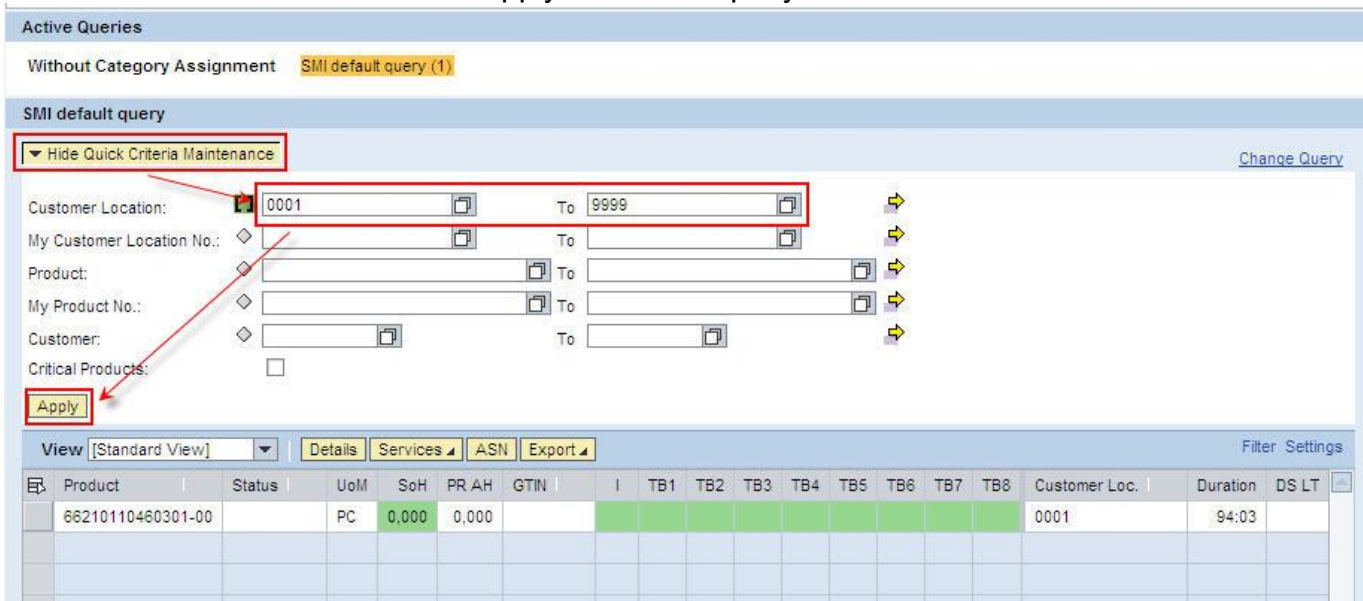
[illegible]

## 1.1 Getting Started

Open the SMI overview from menu Replenishment



By default the overview will show no products. Press “Show Quick Criteria Maintenance” to enter the selection criteria. Press “Apply” to run the query.



To recalculate the projected stock, it is necessary to **refresh** the screen (button in the lower right corner)

View [Standard View] ▾															Details ▾			Services ▾		ASN		Export ▾		Filter Settings		
Product	Status	UoM	SoH	PR AH	GTIN	I	TB1	TB2	TB3	TB4	TB5	TB6	TB7	TB8	Customer Loc.	Duration	DS LT									
10400903500000		PC	0,000	0,000											0001	94:03										
29800009021000		PC	0,000	0,000											0001	94:03										
10400903500000-00		PC	0,000	13.260,000											0001	94:03	3,68									
29800009021001-00		PC	0,000	0,000											0001	94:03										
66210110460301-00		PC	0,000	0,000											0001	94:03										
66210110460305-00		PC	0,000	0,000											0001	94:03										
66210110460307-00		PC	0,000	6.404,000											0001	94:03	3,20									
66210110460308-00		PC	0,000	1.000,000											0001	94:03										
						</																				

Mark **one** line in order to report the detailed stock level, requirements etc.

If you mark several lines, you will receive data for all marked products in the table, the general product data will not be shown.

Product Data

Maintain Location Product

Time Buckets Profile

History Comparison (Inventory)

Inventory Monitor Settings

Loc/Prod/APN:

0001 / 66210110460307-00 /

SoH:

0,000

Last Update Inv.:

My Product No.:

Unrestr./Cons.Stk:

0/0

Last Update Dem.:

Customer:

100000001

Q/C Stk:

0/0

Last Update ASN:

My Cust. Loc. No.:

B/C Stk:

0/0

UoM:

PC

Min/Max Stk:

500/4,805

LP Sts:

Stk Transf./Cons.Stock:

0/0

GTIN:

00000000000000

Lead Time (Hours):

94:03

Key Figures

Grid

Graphic

Export

Grid Arrangement

SMI Overview

Save

Propose Planned Receipts

Audit Trail

History Comparison

ASN Overview

Rcpt/Reqmt List

Due List

Expand All

Collapse All

Product/Customer Location/Key Figure

Initial

17.02.2011

18.02.2011

19.02.2011

20.02.2011

21.02.2011

22.02.2011

23.02.2011

24.02.2011

25.02.2011

26.02.2011

27.02.2011

28.02.2011

66210110460307-00

0001

Demand

1,596,000

1,060,000

3,300,000

2,501,000

Average Demand

2,036,912

2,182,555

2,440,555

2,592,793

2,805,186

Raw Net Demand

Planned Receipts

6,365,000

39,000

In-Transit Quantity

50,000

Projected Stock

-1,546,000

4,819,000

4,858,000

4,858,000

4,858,000

3,798,000

498,000

498,000

498,000

-2,003,000

-2,003,000

-2,003,000

-2,003,000

Days' Supply

7,18

6,20

5,20

4,20

3,20

2,20

1,20

0,20

Minimum Proposal

2,046,000

2,000

2,000

2,000

2,503,000

2,503,000

2,503,000

2,503,000

Maximum Proposal

6,351,000

1,007,000

4,307,000

4,307,000

4,307,000

6,808,000

6,808,000

6,808,000

6,808,000

Minimum Stock

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

500,000

Maximum Stock

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

4,805,000

You can learn from the **inventory details** a grid arrangement and a graphic. The graphic visualizes the temporal process of demand and the stock in a curve. The grid arrangement reports detailed demand and stock data to every period. You as a supplier organize the scheduling by using the grid arrangement.

In the following the single screen areas will be described:

## Inventory data:

SoH:	150,000
Unrestr./Cons.Stk:	0,000/150,000
Q/C Stk:	0,000/0,000
B/C Stk:	0,000/0,000
Min/Max Stk:	500,000/4.805,000
Stk Transf./Cons.Stock:	0,000/0,000
Lead Time (Hours):	94:03

Inventory	Description
SoH	Stock on Hand. Stock available at customer The inventory comprehends the stocks, which considers the term for calculating of inventory projected. In the standard release it is only the free available unrestricted stock.
Unrestr. / Cons. Stk	Unrestricted Stock. Stock free available or free available consignment stock at store at the customer at date of scheduling
Q/C Stk:	Stock or consignment stock in Quality Inspection Stock being examined at date of customer's scheduling
B/C Stk:	Blocked or blocked consignment Stock Stock at customer, which may not be used. You may not use this stock when calculating the stock projected.
Min/Max Stk	Minimum and maximum stock of a product stipulated by customer and supplier Minimum and maximum stock data base on the location product master data.
Stk. Transf./Cons. Stock:	Stock or consignment in transit. Stock in published ASN without goods receipt.

## Last update:

Last Update Inv.:	17.02.2011 14:10:39
Last Update Dem.:	17.02.2011 14:10:39
Last Update ASN:	17.01.2011 13:54:50

These data fields for the last demand and stock update include the date when KOSTAL has actualized the dates last.

The "Last ASN update" contains the date when the last ASN has been published.



## Product data projected:

Product/Customer Location/Key Figure	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	21.02.2011	22.02.2011	23.02.2011	24.02.2011	25.02.2011	26.02.2011
▼ 66210110460307-00											
▼ 0001											
▪ Demand	1.596,000					1.060,000	3.300,000			2.501,000	
▪ Average Demand		2.036,912	2.182,555	2.440,555	2.592,793	2.805,186					
▪ Raw Net Demand											
▪ Planned Receipts		6.365,000	39,000								
▪ In-Transit Quantity	50,000										
▪ Projected Stock	-1.546,000	4.819,000	4.858,000	4.858,000	4.858,000	3.798,000	498,000	498,000	498,000	-2.003,000	-2.003,000
▪ Days' Supply		7,18	6,20	5,20	4,20	3,20	2,20	1,20	0,20		
▪ Minimum Proposal	2.046,000						2,000	2,000	2,000	2.503,000	2.503,000
▪ Maximum Proposal	6.351,000					1.007,000	4.307,000	4.307,000	4.307,000	6.808,000	6.808,000
▪ Minimum Stock	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000
▪ Maximum Stock	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000

## Signification of lines:

### *Demand:*

Gross requirement per day. Demands of the past are summarized in the column "Initial"

### *Average Demand*

### *Raw Net Demand*

### *Planned Receipts*

### *In transit Quantity*

Advised quantity (released ASN) to arrival date at customer

### *Projected stock:*

Stock (available + in quality inspection)  
+ in transit  
+ planned receipt  
- demand

### *Day's Supply*

Number of days the projected stock covering the customers' requirements.

### *Minimum proposal:*

Proposed quantity to be delivered at this day in order not to fall short of minimum stock

### *Maximum proposal:*

Proposed quantity to be delivered at this day in order not exceed the maximum stock

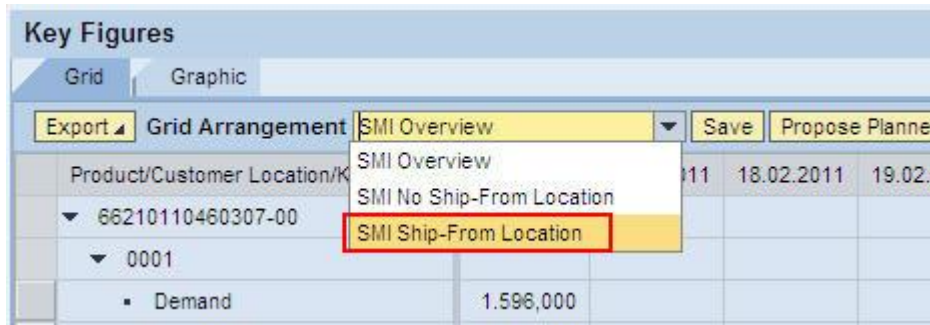
### *Minimum Stock*

Minimum Stock which – in case of shortfall – leads to Alerts and affects the supplier assessment negatively.

### *Maximum Stock:*

Maximum Stock which – in case of exceeding – leads to Alerts

## 1.2 Delivery planning



Select SMI Ship-From Location if planning is only for one supplier number resp. location.  
A New line "Planned Receipts" will be created.

Enter the planned quantity to be delivered and "Simulate". The stock projected will be recalculated:

Product/Customer Location/Key Figure	Ship-From Location	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	21.02.2011	22.02.2011	23.02.2011	24.02.2011
▼ 66210110460307-00										
▼ 0001										
▪ Demand		1.596,000					1.060,000	3.300,000		
▪ Average Demand			2.036,912	2.182,555	2.440,555	2.592,793	2.805,186			
▪ Planned Receipts			6.365,000	39,000						
▪ Planned Receipts	0000700041		6.365,000	39,000						
▪ Raw Net Demand										
▪ In-Transit Quantity		50,000								
▪ In-Transit Quantity	0000700041	50,000								
▪ Projected Stock		-1.546,000	4.819,000	4.858,000	4.858,000	4.858,000	3.798,000	498,000	498,000	498,000
▪ Days' Supply			7,18	6,20	5,20	4,20	3,20	2,20	1,20	0,20
▪ Minimum Proposal		2.046,000						2.000	2.000	2.000

Planned Receipts can be changed.

Product/Customer Location/Key Figure	Ship-From Location	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	21.02.2011	22.02.2011
▼ 66210110460307-00								
▼ 0001								
▪ Demand		1.596,000					1.060,000	3.300,000
▪ Average Demand			2.036,912	2.182,555	2.440,555	2.592,793	2.805,186	
▪ Planned Receipts			6.365,000	39,000				
▪ Planned Receipts	0000700041			5000	39,000			
▪ Raw Net Demand								
▪ In-Transit Quantity		50,000						
▪ In-Transit Quantity	0000700041	50,000						
▪ Projected Stock		-1.546,000	4.819,000	4.858,000	4.858,000	4.858,000	3.798,000	498,000
▪ Days' Supply			7,18	6,20	5,20	4,20	3,20	
▪ Minimum Proposal		2.046,000						

Press ENTER to recalculate the project stock.

▼ 66210110460307-00								
▼ 0001								
▪ Demand		1.596,000					1.060,000	3.30
▪ Average Demand			2.036,912	2.182,555	2.440,555	2.592,793	2.805,186	
▪ Planned Receipts			5.000,000	39,000				
▪ Planned Receipts	0000700041		5.000,000	39,000				
▪ Raw Net Demand								
▪ In-Transit Quantity		50,000						
▪ In-Transit Quantity	0000700041	50,000						
▪ Projected Stock		-1.546,000	3.454,000	3.493,000	3.493,000	3.493,000	2.433,000	-86
▪ Days' Supply			4,73	3,74	2,74	1,74	0,74	
▪ Minimum Proposal		2.046,000						1.36
▪ Maximum Proposal		2.054,000	4.254,000	4.243,000	4.243,000	4.243,000	2.273,000	5.87

As an alternative, Planned Receipts can be calculated by the system.

Key Figures							
Grid		Graphic					
Export	Grid Arrangement	SMI Ship-From Location	Save	Propose Planned Receipts	Audit Trail	History Comp	
Product/Customer Location/Key Figure	Ship-From Location		Propose Planned Receipts	1	19.02.2011	20.02.2011	
▼ 66210110460307-00			Propose Planned Receipts and Save				
▼ 0001			Simulate Projected Stock				
▪ Demand		1.596,000	Send ProductActivityNotification				
▪ Average Demand							
▪ Planned Receipts							

The proposed values are changeable.

If the planning is finalized, data are to be saved.

Planned Receipts will

- be considered when operating Alerts
- not be transferred to customer
- be displayed in the due list
- be used as basis for ASNs

## 1.3 Additional functions in Inventory Details

Audit-Trail

Display SMI changes in the past

History Comparison

Compare data changes between to data

ASN Overview:

Selection and listing of all deliveries to product

Rcpt/Reqmt List

No operation in KOSTAL proceeding

Due list:

Selection and listing of all [due dates](#) resp. all deliveries to product



Export	Export of time series table in a CSV file without general product data
Maintain Location Product	No operation in KOSTAL proceeding
Time Bucket Profile	See next chapter
History Comparison (Inventory)	Compare data changes between to data

## 1.4 Configuration Time Bucket Profile

For each product it can be arranged

- in which period of time/Horizon demands etc. are to be shown
- in which periods data should are to be summarized

The configuration of Time Bucket Profile you will find in the menu or in the SMI Details:



## SMI Details - Product view

← → ⌂
Exceptions Demand Replenishment Delivery Master Data

### Selection Area

Go Open Selection

### Product Data

Maintain Location Product Time Buckets Profile History Comparison (Inventory) Inventory Monitor Settings

Loc/Prod/APN:

0001 / 66210110460307-00 / ▼

SoH:

My Product No.:

Unrestr./Cons.Stk:

0/0

Customer:

100000001

Q/C Stk:

0/0

My Cust. Loc. No.:

B/C Stk:

0/0

UoM:

PC

Min/Max Stk:

500/4.805

LP Sts:

Stk Transf./Cons.Stock:

0/0

GTIN:

00000000000000

Lead Time (Hours):

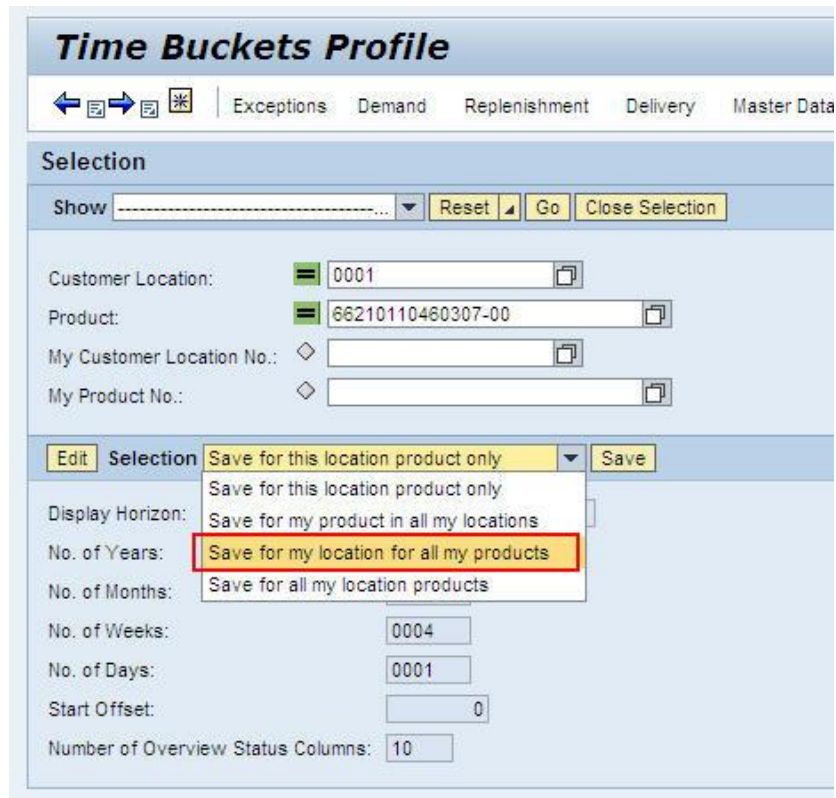
### Key Figures

Grid Graphic

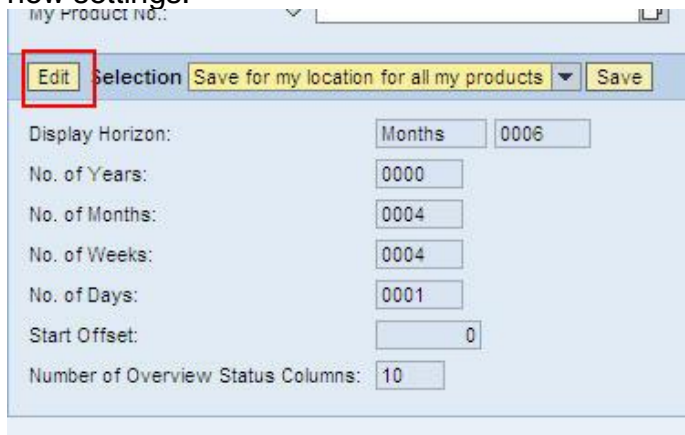
Export Grid Arrangement SMI Overview Save Propose Planned Receipts Audit Trail History Comparison ASN Overview

Product/Customer Location/Key Figure	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	21.02.2011	22.02.2011	23.02.2011
▼ 66210110460307-00								
▼ 0001								
▪ Demand	1.596,000					1.060,000	3.300,000	
▪ Average Demand		2.036,912	2.182,555	2.440,555	2.592,793	2.805,186		
▪ Raw Net Demand		6.351,000	6.351,000	6.351,000	6.351,000	7.411,000		
▪ Planned Receipts		2.500,000		3.500,000				
▪ In-Transit Quantity	50,000							
▪ Projected Stock	-1.546,000	954,000	954,000	4.454,000	4.454,000	3.394,000	94,000	94,000
▪ Days' Supply		3,90	2,90	5,04	4,04	3,04	2,04	1,04
▪ Minimum Proposal	2.046.000						406.000	406.000

Select the default setting for a Sip-To Location/Product combination:



If necessary, click to "Edit", in order to activate fields for data entry and select the scope for the new settings.



"To specify the duration and **period division of the short-term horizon**, enter the number of weeks in the *Number of Weeks* field for which you want a schedule line in days.

To specify the duration and **period division of the subsequent medium-term horizon**, enter the number of months in the *Number of Months* field for which you want a schedule line in weeks. This schedule line is only available if you have chosen the period type *month* or *year* for the planning horizon.

To specify the duration and **period division of the subsequent long-term horizon**, enter the number of years in the *Number of Years* field for which you want a schedule line in months. This schedule line is only available if you have chosen the period type *year* for the planning horizon."<sup>1</sup>

<sup>1</sup> Source: [http://help.sap.com/saphelp\\_scm50/helpdata/en/6b/72a726614f450cbf793afae89b3e8a/content.htm](http://help.sap.com/saphelp_scm50/helpdata/en/6b/72a726614f450cbf793afae89b3e8a/content.htm)

## 1.4.1 Examples

### Selection 1

Display Horizon:

No. of Years:

No. of Months:

No. of Weeks:

No. of Days:

Start Offset:

Number of Overview Status Columns:

Display the rest of the actual week in days and next week as weekly sum:

Product/Customer Location/Key Figure	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	W:08.2011
▼ 66210110460307-00						
▼ 0001						
▪ Demand	1.596,000					6.861,000
▪ Average Demand		1.596,000				
▪ Raw Net Demand		6.351,000	6.351,000	6.351,000	6.351,000	13.212,000
▪ Planned Receipts		2.500,000		3.500,000		3.000,000
▪ In-Transit Quantity	50,000					
▪ Projected Stock	-1.546,000	954,000	954,000	4.454,000	4.454,000	593,000
▪ Days' Supply		3,97	2,97	5,54	4,54	9.999,00
▪ Minimum Proposal	2.046,000					
▪ Maximum Proposal	6.351,000	3.851,000	3.851,000	351,000	351,000	4.212,000
▪ Minimum Stock	500,000	500,000	500,000	500,000	500,000	500,000
▪ Maximum Stock	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000	4.805,000

### Selection 2

Display Horizon:

No. of Years:

No. of Months:

No. of Weeks:

No. of Days:

Start Offset:

Number of Overview Status Columns:



Display next 4 weeks in days, the next 3 month in weekly sum and the rest monthly

Product/Customer Location/Key Figure	Initial	17.02.2011	18.02.2011	19.02.2011	20.02.2011	21.02.2011	22.02.2011	23.02.2011	24.02.2011	25.02.2011
66210110460307-00										
0001										
▪ Demand	1.596,000					1.060,000	3.300,000			2.501,000
▪ Average Demand		2.036,912	2.182,555	2.440,555	2.592,793	2.805,186				
▪ Raw Net Demand		6.351,000	6.351,000	6.351,000	6.351,000	7.411,000				5.801,000
▪ Planned Receipts		2.500,000		3.500,000						3.000,000
▪ In-Transit Quantity	50,000									
▪ Projected Stock	-1.546,000	954,000	954,000	4.454,000	4.454,000	3.394,000	94,000	94,000	94,000	593,000
▪ Days' Supply		3,90	2,90	5,04	4,04	3,04	2,04	1,04	0,04	3,16
▪ Minimum Proposal	2.046,000						406,000	406,000	406,000	
▪ Maximum Proposal	6.351,000	3.351,000	3.351,000	3.351,000	3.351,000	1.111,000	4.711,000	4.711,000	4.711,000	4.712,000
		011	W:15.2011	W:16.2011	W:17.2011	MAY 2011				
		13,000	3.252,000	11.244,000	11.944,000	14.444,000				
		94,000	-46.546,000	-57.790,000	-69.734,000	-84.178,000				
		94,000	47.046,000	58.290,000	70.234,000	84.678,000				
		99,000	51.351,000	62.595,000	74.539,000	88.983,000				
...		10.000	500.000	500.000	500.000	500.000				



## 1.4.2 Overview Status Columns

Display Selection Save for my location for all my products Save

Display Horizon: Months 0004

No. of Years: 0000

No. of Months: 0003

No. of Weeks: 0004

No. of Days: 0000

Start Offset: 0

Number of Overview Status Columns: 5

Specify the number of periods for which the overview screen of the monitor is to display the

stock status.

View	[Standard View]	Details	Services	ASN	Export										
Product	Status	UoM	SoH	PR AH	GTIN	I	TB1	TB2	TB3	TB4	TB5	TB6	TB7	TB8	Customer Loc.
10400903500000		PC	0,000	0,000											0001
2980009021000		PC	0,000	0,000											0001
10400903500000-00		PC	0,000	13,260,000											0001
2980009021001-00		PC	0,000	0,000											0001
66210110460301-00		PC	0,000	0,000											0001
66210110460305-00		PC	0,000	0,000											0001
66210110460307-00		PC	0,000	9,000,000											0001
66210110460308-00		PC	0,000	1,000,000											0001

## 1.5 Due list and ASN

**SMI Details - Product view**

Exceptions Demand Replenishment **Delivery** Master Data

**Receipts and Requirements** **Due List for Planned Receipts (SMI)**

Advanced Shipping Notification

Go Open Selection

If deliveries are planned and saved in the demand details, so they will be sorted by delivery date (receipt at customer) and listed: see red framed table.

Due List								
Display Inventory Details Create ASN Create RO								
View	[Standard View]	Export						
Ship-From Location	Customer Location	Product	Delivery Date (ETA)	Planned Quantity	Unit	Promotion ID	ASN Quantity	
0000700041	0001	66210110460307-00	17.02.2011 00:00:00	2,500,000	PC		107,000	
0000700041	0001	66210110460307-00	19.02.2011 00:00:00	3,500,000	PC		107,000	
0000700041	0001	66210110460307-00	25.02.2011 00:00:00	3,000,000	PC		107,000	

Draft ASNs			
Change Publish			
View	[Standard View]	Export	
Ship-From Location	Customer Location	ASN No.	Deliver
0000700041	0001	144	1

The green framed table shows all ASN being in process with status "Draft".

As soon as a delivery is completed and the ASN has been published the corresponding due dates will be deleted.

In order to create a new delivery a new entry has to be marked within the due list (framed red). By clicking on "Create ASN", you will refer to Create ASN.

Further processing of ASN has to be done similar to the release process.

## 1.6 Inventory-Alerts

Alert Description	ID	Description
<i>Below min. – projected stock</i>	11	The projected stock falls below the minimum stock.
<i>Above max. – projected stock</i>	12	The projected stock exceeds the maximum stock.
<i>Stockout – projected stock</i>	13	The projected stock is zero or below zero.

<i>Below min. – warehouse stock</i>	7041	The actual warehouse stock is below the minimum stock.
<i>Above max. – warehouse stock</i>	7042	The actual warehouse stock is above the maximum stock.
<i>Stockout – warehouse stock</i>	7043	The actual warehouse stock is zero.