BW - Turn Evolution - 3 month (Core Query)

Basic Information

BW Server	WBP
Application	IM Stocks
Query Name	BW - Turn Evolution - 3 month (Core Query)
Query Technical Name	BW_QRY_MPR_IC001_0028
Core/Specific Scope	Core - Can be used by everyone.
Provider Name	Material Stock MPR_IC001
Usage type	Direct execution via Analysis
Expected users	Supply chain

Purpose of this query

The objectif of this query is to display the inventory turnover (Turn) and days of supply (DOS) to identify materials in inventory that have a slow turnover and then take action.

In this query, the turnover is calculated based on 3 month period of stock issues.

Important information

- This query calculates the **Turnover at plant boundaries**.

This query cannot be used to calculate a turnover at GBU or company level since transfers from one plant to another are considered as stock issues.

- As the objective of the report is to identify slow moving stocks, **movements related to scrapping are excluded from the issues**(otherwise scrapped materials will show with a good turnover).
- **Transfers inside the plant (from one storage location to another storage location) are excluded from the issues.**

Variables screen

Variable Name	Authorization Object	Description
Company Code	Yes	The company code owning the stock
Calendar Year /Month	No	Only 1 month can be selected by the key figures will be shown for Month to Month-3 Careful : if you select the current month, which is incomplete, the TURN will be incorrect as the inventory issues will be under-evaluated.

Current month

Careful : if you select the current month, which is incomplete, the TURN will be incorrect as the inventory issues will be under-evaluated.

Filters

Object	Filter Value	Explanation

Infoprovider	<> CUB_COPC1 Material Prices	This so that the data from the material prices cube are not included in this query (not needed)

Characteristics

The list below only describes the characteristics which may need explanations :

Characteristic Name	Characteristic code	Explanation
Calendar Year / Month	0CALMONTH	Careful when using this characteristic in this report : For the stock issues this is the month of the movement. For the stock level this is the end of month value/qty
1 - Enterprise	C_MATPLNT__C_PFCTR1	GBU

Key Figures

Overall view

First, although you only need to select 1 month, the report will provide the TURN and DOS calculations for that month as well as the 3 months before that.

[+] M-3 Turn	[+] M-2 Turn	[+] M-1 Turn	[+] M Turn	M-3 DOS	M-2 DOS	M-1 DOS	M DOS

By clicking on the + close the turn, you can get more detailed key figures for each month. Those are either used for the TURN calculation or just there to help you do verification.

[-] M Turn	Annualized Stock Issues M (K Currency)	End of M stock value (K Currency)	End of M stock quantity

M DOS

Description

Days of supplies calculated for month M. It's the number of days of supplies left considering the end of month M inventory and the average stock issues in the past 3 months.

Calculation rule detail

It's the number of days in the year divided by the turnover.

M DOS = 365 / M TURN

Example

If you have turnover is 365 , then DOS will be 365/365 = 1 --> You only have stock for 1 more day.

If you have a turnover of 100, then DOS will be 365/100 = 36.5 --> You have 36,5 days of stock left.

if you have a turnover of 1, then DOS will be 365/1 = 365 --> You have 1 year of stock left.

M Turn

Description

Inventory Turnover for the month M. It's calculated based on the value of the annualized stock issues of the M, M-1, M-2 months and the inventory value at the end of month M.

Calculation rule detail

Turn of month M = (Annualized Stock Issues M) / (End of M stock value)

= (Stock issues of month M + Stock issues of month M-1 + Stock issues of month M-2) * 4 / (end of M stock value)

Example

You want to calculate the TURN for March :

- During January to March you had 1.000$ of stock issues so your annualized stock issue is 4.000$.
- At end of march, the inventory value was 10.000$
- Your turn will be 10000/4000 = 2.5 --> In 1 year, your inventory is "turning" 2,5 times if you keep the same issues as in the past 3 months.

Annualized Stock Issues M (K Currency)

Description

It's the amount of the stock issues from M-2 to M multiplied by 4 (annualized).

Amount is in thousands (Kilo currency).

Are considered issues the following material movement types :

- [122] RE return to vendo
- [123] RE rtrn vendor rev.
- [161] GR returns
- [162] GR rtrns reversal
- [201] GI for cost center
- [202] RE for cost center
- [221] GI for project
- [222] RE for project
- [231] GI for sales order
- [232] RE for sales order
- [251] GI for sales
- [252] RE for sales
- [261] GI for order
- [262] RE for order
- [543] GI issue sls.ord.st.
- [544] GI receipt sls.or.st
- [601] GD goods issue:delvy
- [602] RE goods deliv. rev.
- [621] GI ret.pack.:lending
- [622] GI ret.pack:ret.del.
- [631] GI consgmt: lending
- [632] GI consgmt:ret.delvy
- [633] GI iss: cust.consgmt
- [634] GI rcpt:cust.consgmt
- [641] TF to stck in trans.
- [642] TR to stck in trans.
- [643] TF to cross-company
- [644] TR to cross-company
- [645] TF cross company
- [646] TR cross company
- [647] TF to stck in trans.
- [648] TR to stck in trans.

Calculation rule detail

Annualized Stock Issues M (K Currency) = Sum of the material movements during month M, considering only the Issue movement types (list above).

Note that transfers inside the plant as well as scraping are not considered as issues.

Ex : The annualized stock issues of February 2015 is equal to the stock issues of (February 2015 + January 2015 + December 2015) multiplied by 4.

End of M Stock Value (K Currency)

Description

This is the value of the inventory at the end of the selected month (if current month, then it's todays value) in thousands and local currency.

Calculation

No calculation. This comes directly from SAP.

End of M Stock Quantity

Description

This is the quantity of the inventory at the end of the selected month (if current month, then it's todays value) in thousands and local currency.

It's not actually used in the query calculations but only there for you to verify.

Calculation

No calculation. This comes directly from SAP.

Currency Conversion

There is no currency conversion in this query as it's intended to be used usually for a single plant or single legal entity.

Conditional Formatting

See how to use in the Formatting page.

Condition Name	Rule
TURN <> 0	Shows only the lines for which the TURN is not equal to 0
TURN = 0	Shows only the lines for which the TURN is equal to 0 (Usually materials with 0 inventory)

FAQ

Question : What does the X value mean in DOS ?

A "X" value in BW means that the calculation couldn't be done due to a division by 0. In the case of the DOS, it means the TURN was equal to 0.

Question : How can I remove all the lines where TURN is empty (Lines where the material has no stock) ?

You can activate one of the BEX Conditions to filter on the data