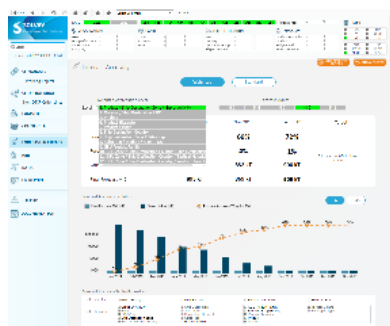


Forecast Accuracy 2.0 ARCHIVES



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General Description

The KPI **Forecast Accuracy (FA)** evaluates the ability to get a visibility on customers' demand in terms of quantity.

As an input of S&OP process, reliable forecasts constitute the major way to improve the customer satisfaction via an optimized planning of operations. The Forecast Accuracy in this dashboard is calculated based on the **Final Forecast and the Gross History**.

For a particular month, the Forecast Accuracy is calculated for the last **5 months forecast (M-1 ... M-5)**; allowing the possibility to evaluate the accuracy of the forecast with reference to several different forecast periods.

The refresh of the KPI is made every month on the 7th, including the full history.

It is available for all GBUs currently using Dynasys or APO as Demand Planning systems: Aroma Performance, Composite Materials, Novecare, Peroxides, Silica, Soda Ash&Derivatives, Special Chem and Technology Solutions.

Target Users

- Global Supply Chain Managers
- Regional Supply Chain
- Local Supply Chain
- Supply Chain Analyst
- S&OP Manager
- Purchasing Manager / Buyers
- Supply Chain Excellence
- Account Managers

Authorization & Rights

All the accesses must be validated by:

GBUs and Supply Chain Excellence

Request access to global SC dashboard by Service One ticket (Corporate Dashboard)

Glossary

Source Data in the GSCD

	Source	Gross History	Final Forecast
Aroma	Dynasys	Demand History ETA	Last validated Forecast ETA
Silica	Dynasys	Demand History ETA	Last validated Forecast ETA
TS	Dynasys	Demand History ETA (Sales Orders volumes in ETA)	Sales Team Forecast ETA
Novecare	Dynasys	Demand History ETA (Last Requested Delivery Date)	Last validated Forecast ETA
SA&D	Dynasys	Actual Shipped Qty in ETD	Last Validated Forecast ETD (Unconstrained Demand validated after demand review meeting)
Peroxides	Dynasys	NA: Shipped History ETD Others: Demand History ETA	NA: Last validated Forecast ETD Others: Last validated Forecast ETA

Forecast Bias ratio (%): It measures the tendency for a forecast to be consistently higher or lower than the actual value.

Forecast Bias is distinct from the forecast error, in that a forecast can have any level of error, but still be completely unbiased. It is calculated as the average deviation (over or below) of forecasts from actuals.

$$\text{Forecast Bias} = \frac{\text{Sum}(\text{Final Forecast}) - \text{Sum}(\text{Gross History})}{\text{Sum}(\text{Gross History})} \times 100$$

If the Forecast is greater than the Gross History, then the Forecast Bias is positive (indicates over forecast)

At the opposite, if the Forecast is lower than the Gross History, then the Forecast Bias is negative (indicates under forecast)

A Forecast Bias = 0, indicates a total absence of gap (bias)

Forecast Bias is a "tracking signal" (positive or negative) and percentage can be above 100%

In many cases, it is useful to know if demand is systematically over- or under-estimated. For example, even if a slight forecast bias would not have a notable effect on store replenishment, it can lead to over- or under-supply at the central warehouse or distribution centers if this kind of systematic error concerns many stores.

How does it work?

1. Select Filters

On top of the dashboard, several different filters allow you to reduce the scope of data for the analysis

DATE 2020 2021 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Month Year

ORGANIZATION: GBU, Group of Activity, Sub-Activity, Company

PLANT: Zone, Country, Plant

SHIP DESTINATION: Zone, Country, Corporate Group, Ship Destination

PRODUCT: Product Hierarchy, Product, Bulk/Packed, Transport Mode

UNITS: KG, T, KT, EUR, MEUR, PND, KPNP, SH-T, USD, KUSD, MUSD

ADD SPECIFIC FILTERS SHOW FILTERS

as well as Specific Filters to select in the dedicated box

ADD SPECIFIC FILTERS SHOW FILTERS

2. Select the Forecast Accuracy calculation method

As explained above, the Forecast Accuracy is calculated according to:

- the standard calculation at the detailed level *Material x Distribution Channel x Ship-to*
- the weighted calculation at selected level within the 12 available ones in the drop-down menu (dynamic calculation at displayed level)

3. Select the reference period

On every 6th of each month, a snapshot of the Forecast is taken, keeping the reference of the forecast provided up to 5 months before. This will allow to calculate the FA for periods M-1, M-2, M-3, M-4, and M-5.

[Click here to retrieve the naming conventions by system](#)

4. Check the Forecast Accuracy table

After applying the filters, selecting an aggregation level and a reference period, there is still a way to customize a detail table with the desired Indicators and Dimensions

Forecast Accuracy Table dimensions

Table Indicators: ☐ Gross History ☐ Final Forecast ☐ Forecast Accuracy ☐ Forecast Bias

Table Dimensions:

- ☐ Group Of Activity
- ☐ Ship Destination
- ☐ GBU Product Family
- ☐ Tactical Material
- ☐ Plant
- ☐ Ship-to KA
- ☐ Product Group (PGMI)
- ☐ Packaging Type
- ☐ GBU Zone
- ☐ Distribution Channel
- ☐ Product Hierarchy
- ☐ Corporate Group
- ☐ Ship Destination Zone
- ☐ Sales Rep
- ☐ Product
- ☐ GBU
- ☐ Ship Destination Country
- ☐ Product Line 00
- ☐ Material
- ☐ MonthYear

Please note that all dimensions don't match with all aggregation levels.

As a consequence, only the dimensions that are available for the selected aggregation level are displayed.

Mismatching dimensions are disabled to avoid calculation errors.

In the custom table, dimensions in the cyclic depend on the selected aggregation level. If a column is displayed twice because of the cyclic, just deselect the corresponding dimension in the table.

In the pivot table format (Click on the Fast change if you don't see it), the total is available for the 1st column. Move your columns to get the total for the dimension you wish.

Technical Documentation

Source: DYNASYS / APO (WP1) / APO (PF1) - QV_BW_QRY_MVDYN11_0005

Update: Monthly full reload (history included) on the night of the 6th and the 7th (minor corrections in Gross History may still occur from one month to another)

Technical BW Documentation: [BW - DP - Forecast Accuracy \(Core Query\)](#)

Naming convention by Source System (Dynasys vs APO)

Global SC Dashboard	Dynasys	APO (WP1)	APO (PF1)
Gross History	GH / Gross History	Demand History	History
Final Forecast	FF / Final Forecast	PreSOIP Plan	Consensus Forecast

Dimensions: [Global Overview of Dimensions](#)

			Forecast Accuracy
Global Filters	Period	Month Year	Calendar Year/Month [0CALMONTH]
	Organization	GBU	BFC GBU [CPFCTR1_2]
		Group of Activity	PF1: Group of activity = [C_DYN_010] BUAttributes\CPFCTR2_2] BFC Group of activities WP1: Manual Mapping based on [G_CWWE1] IECRA to get Group of Activity (MAPPING DYNASIS.xls)
		Sub-Activity	PF1: Activity = [0G_CWWE01__C_MAGNITU] BFC Activity 1 WP1: Manual Mapping based on [G_CWWE1] IECRA to get the Sub-activity (MAPPING DYNASIS.xls)
		Company	[C_DYN_018__C_COMPCDE] Company code
	Plant	Zone	Main Shipping Plant Geo Zone [C_DYN_018__C_MPPLANT__C_GEOZONE]
		Country	Main Shipping Plant Country [C_DYN_018__C_MPPLANT__C_0COUNTRY]
		Plant	Main Shipping Plant [C_DYN_018__C_MPPLANT]
	Ship Destination	Zone	Ship-to BFC Geo Zone [C_SHIPTID__C_ZONE]
		Country	Ship-to Country [C_SHIPTID__C_0COUNTRY]
		Corporate Group	Ship-to Corporate group [C_SHIPTID__C_CORPGR]
		Ship Destination	Ship-to [C_SHIPTID]
	Product	Product Hierarchy	Prod.hierarchy [C_MATNR2__0PROD_HIER]
		Product	Com Prod / Mat Grp [C_MATNR2__C_PROD]
		Bulk/Packed	N/A
		Transport Mode	N/A
Specific Filters		Distribution Channel	Distribution Channel [0DISTR_CHAN]
		GBU Product Family	Default: Product Family Code [C_MATNR2] Material\Attributes\ [C_FMPRD] Exceptions: Soda Ash, Fibras: WP1: C_MATNR2_C_LIP03 PF1: [C_MATNR2__0PROD_HIER] Prod. Hierarchy Aroma, Silica = GBU Material Group Special Chem = GBU Material Group (both WP1 & PF1) Peroxides: WP1: LIP2 PF1: Product_Hierarchy_ Cheops PIF (Missing- not possible) Novecare, Technology Solutions: WP1: Default PF1: [C_MATNR2__0PROD_HIER] Prod. Hierarchy Polytechnyl, Performance Polyamides, Alsachimie: [C_MATNR2] Material\Attributes\ [C_ACRI015] Forecasts Family
		GBU Zone	[CGBUZONE__C_ZONEH2] Ship-to GBU zone 2 Exception for TS: [CGBUZONE__C_ZONEH1] GBU zone (hier .1) for TS Mining No hierarchy used for Phosphorus Specialities
		Material	Material [C_MATNR2]

		Material Group	Material Group [C_MATNR2__C_MAT_GRP]
		Packaging Type	Packaging Type [C_MATNR2__C_MAT_GRP]
		Product Group (PGMI)	Product Group (PGMI) [C_DYN_005__C_GRPPGMI]
		Product Line 00	Product line 00 [C_MATNR2] Material\Attributes\[C_LPROD]
		Sales Rep	Sales Employee [C_DYN_021__C_DYN_065]
		Ship-to KA	Ship-to Key Account [C_GBR15_C_SHIPKA]
		Tactical Material	Tactical Material [C_DYN_005_C_TACTIC2]
		Corporate Sold-To	[C_CORPGR] CRM Customer Corp. Group (PRS)