

Applies to:

SAP APO Forecast.

Summary

This document describes the loading process of Statistical Base Forecast, which will be done automatically.

The Statistical Base Forecast is the outcome of a process, which starts with gathering historical data (Sales History). After applying selected Statistical Forecast profiles, the result is the Statistical Base Forecast. From this the Adjusted Base Forecast is derived.

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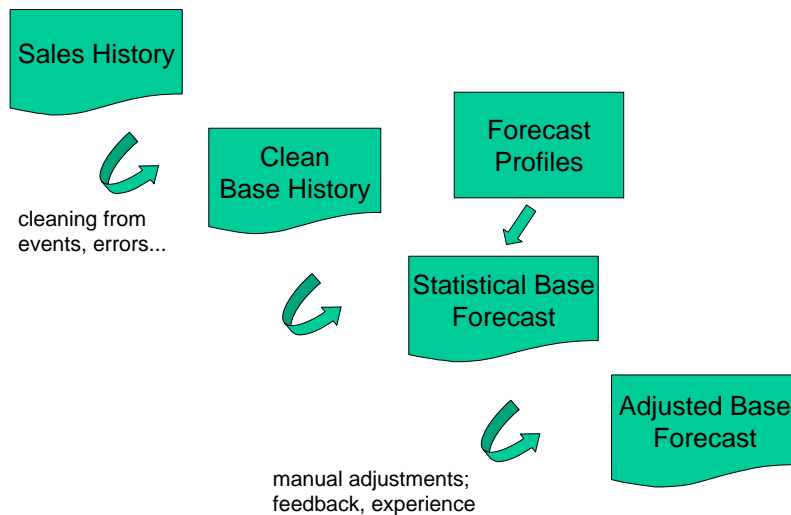
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APO Base Statistical Forecast

This document describes the loading process of Statistical Base Forecast, which will be done automatically.

The Statistical Base Forecast is the outcome of a process, which starts with gathering historical data (Sales History). After applying selected Statistical Forecast profiles, the result is the Statistical Base Forecast. From this the Adjusted Base Forecast is derived. See overview below:



The Statistical Base Forecast represented by a Key Figure in the Planning Book.

Regarding to data conversion only Adjusted Base Forecast data from the past is required

Theoretically planning can be done for different characteristics and different levels (combinations of characteristics). For initial upload, however, the lowest possible level is required, which means all Characteristics should be filled in.

Transaction code: (BW) **RSA1** "Administrator Workbench" where the upload takes place
 (APO) **/SAPAPO/SDP94** "Interactive Demand Planning" view result

Data Source

The ETL environment supplies the data in text files, semicolon delimited, according to the Development specification.

The same DOS file is used for 8 other Key Figures, covering actually 8 other objects to load. The 9 Key Figures listed in the file are:

- Final Consensus Demand Plan
- Adjusted Base Forecast
- OPL
- Cleaned Base History
- Sales Orders
- Dispatches
- Return Orders
- Historical Promotional Events
- Statistical Base Forecast

The DOS is a list of Characteristics, Time Stamps and Key Figures. Per row **each** Characteristic is filled in (e.g. lowest level of Characteristic combination) and for this a Key Figure value is provided. If several Key Figure values are valid for the same Characteristic combination, they can be entered in the same row together.

The list of Characteristics:

Plant

Material

Brand-Denomination

Channel Level 2

Channel Level 3

Customer Level 3

Customer Level 4

Material Group 1

Local (Country)

Distribution Channel

Planning Customer Grp

Range Brand

Sales Organisation

Sales Office

Sales District

Whether all 9 Key Figures will be loaded via one sheet or multiple sheet is left to the Market.

Approach

Statistical Basr Forecast, as well as the other Key Figures, will be loaded into an InfoCube as a quantity allocated to Characteristics combination at the lowest level, so all Characeristics should have been given a value.

The transactional – historical data will be up loaded from a flat file, the output of ETL, first into one BW InfoCube. From this BW InfoCube, the data will be transferred to 4 APO InfoCubes, after validation in BW. The data load will be automatic using standard upload facility in BW/APO via transaction code RSA1.

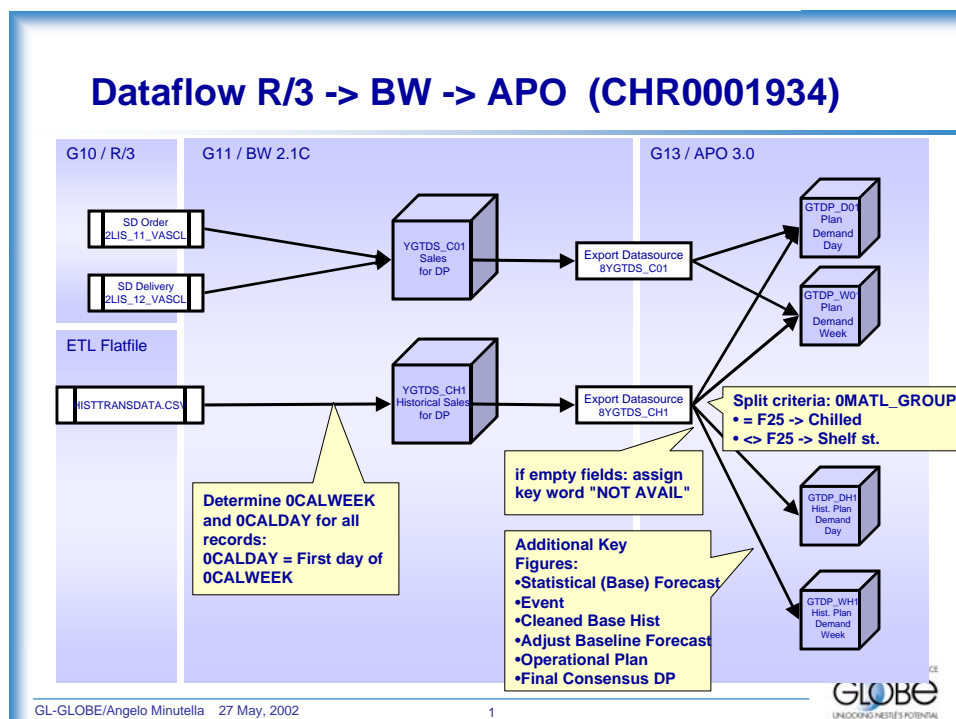
Sales orders, Dispatches and Return orders data will be transferred into two (Chilled and Shelf St.) Historical InfoCubes

Data of the 6 other Key Figures will be transferred into two (Chilled and Shelf St.) Transactional InfoCubes. This includes historical Promotional Events.

The system determines whether a record is transferred to the InfoCube for chilled products or shelf stable products. The split criteria is the value of the Material Group field: F25 = Chilled and if not F25 then Shelf stable.

ETL Output file (Transactional) > One BW Infocube > 2 APO InfoCubes (Shelf Stable and Chilled)

ETL Output file (Historical) > One BW Infocube > 2 APO InfoCubes (Shelf Stable and Chilled)



Target Systems

- Regional/Local BW/APO systems.

Setup Requirements

Initial setup requirements for loading.

Authorizations

Each person listed has a step to perform in the loading of this object. The required authorization profile is listed.

Role	Description
Enterer of the data	ERD0000306 – Data Expert BW Administrator
Validator / reconciliation	ERD0000071 – Demand Planner

Pre-requisites

The pre-requisites for this object are defined in the local market cutover plan, derived from the generic cutover plan.

Transactional Steps

Step by step instructions for loading the data object.

For the final production load, print a master hard copy of this document. Initial completion of each step and retain hard copy as audit trail.

Automatic Upload

St	Business Procedure Steps	TCode	Comments	Initials
1	Start related ETL process to create the input file			
2	Check ETL output file / BW input file: number of columns, order of columns, etc.			
3	Look what Key Figures are filled in in the input sheet			
4	Logon into target system – Regional / Local BW Core			
5	Ensure that no other processes are accessing the data, as this will generate locking errors			
6	Contact the BW Administrator to execute the following steps	BW -RSA1		

St	Business Procedure Steps	TCode	Comments	Initials
7	Select Modelling - InfoSources	"		
8	Select Application Component	"	path. Nestle Globe Template -> Demand and Supply Planning -> Historical and Transactional Data for Demand Planning	
9	Select InfoSource	"	IS for Hist. and Trans. Data for Demand Planning - YGTDS_YGTDS_CH1	
10	Select Source system	"	GLO GT: BIW – Flat File 001 <system>FILE001	
11	Select InfoPackage	"	YGTDS_YGTDS_CH1 full (Trans. and Hist. data)	
12	Select tab External Data	"	C:/HISTTRANSDATA Use exactly this file name and path for specifying the input data The InfoPackage is pre-set, meaning all settings in the different tabs are already set correctly	
13	Select tab Schedule and hit the Start button			
			Data is now loaded in the staging area (PSA) and also in the BW InfoCube	
14	Select from Menu bar Go to -> Monitor for monitoring		refer to sections Program Validation and Data Reconciliation in BW in Ch. 4	
			From BW the data has to be transported to APO. This should happen after the above mentioned validations	
15	Logon into target system – Regional / Local APO Core			
16	Ensure that no other processes are accessing the data, as this will generate locking errors			
17	Go to the Administrator Workbench	APO -RSA1		
18	Select Modelling - InfoSources	"		
19	Select Application Component	"	GT Application Component Nestle	
20	Select InfoSource	"	GT Demand Planning IS hist. and trans. data - GTDP_HISTORY	
21	Select Source system	"	GLO GT: BIW – Track 1 – DV <system><client>	
	Four InfoPackages are set; for	"	8YGTDS_CH1 (Chilled F25) full	

St	Business Procedure Steps	TCode	Comments	Initials
	each to the following		-> GTDS_DH1(ZPAK_3LUA EJ60Y 8XFEJG3WDF2EW8GZ) 8YGTDS_CH1 (Chilled F25) full -> GTDS_D01(ZPAK_3LUHYEDI9I DZ90EBXVQJSS6OZ) 8YGTDS_CH1 (Shelf stable F24) full -> GTDS_W01(ZPAK_3LUI0LQY7 2PNPXDC8JXFP2X2B) 8YGTDS_CH1 (Shelf stable F24) full -> GTDS_WH1(ZPAK_3LUA EGE6 3R37OEF9SIKMS6P5V)	
22	Select tab Schedule and hit the Start button	"	The InfoPackage is pre-set, meaning all settings in the different tabs are already set correctly	
			Data is now loaded in the staging area (PSA) and also in the APO InfoCube	
23	Select from Menu bar Go to -> Monitor for monitoring		refer to sections Program Validation and Data Reconciliation in APO in Ch. 4	

Naming Convention

Naming conventions BW

Sourcesystem	R21FILE001
InfoPackage	"YGTDS_YGTDS_CH1 full (Trans. and Hist. data)"
InfoSource	YGTDS_YGTDS_CH1 "IS for Hist. and Trans. Data for Demand Planning"
Application Component	"Historical and Transactional Data for Demand Planning"
InfoCube	YGTDS_CH1 "Historical and Transactional Data for DP"
Export DataSource	8YGTDS_CH1 "Historical and Transactional Data for DP"

Naming conventions APO

Sourcesystem	R21DVBW102
InfoPackage	8YGTDS_CH1 (Chilled F25) full -> GTDS_DH1(ZPAK_3LUAEJ60Y8XFEJG3WDF2EW8G Z)
	IP: 8YGTDS_CH1 (Chilled F25) full -> GTDS_D01(ZPAK_3LUHYEDI9IDZ90EBXVQJSS6OZ)
	IP: 8YGTDS_CH1 (Shelf stable F24) full -> GTDS_W01(ZPAK_3LUI0LQY72PNPXDC8JXFP2X2B)
	IP: 8YGTDS_CH1 (Shelf stable F24) full -> GTDS_WH1(ZPAK_3LUAEGE63R37OEF9SIKMS6P5 V)
InfoSource	GTDP_HISTORY "GT Demand Planning IS hist. and trans. data"
Application Component	"GT Application Component Nestle"
InfoCube	GTDP_DH1 "GT Demand Planning Hist. and Trans. IC in days"
	GTDP_WH1 "GT Demand Planning Hist. and Trans. IC in weeks"
	GTDP_W01 "DT Demand Planning Info Cube in weeks"
	GTDP_D01 "DT Demand Planning Info Cube in days"

Reconciliation

The SAP/APO reconciliation or information for comparison with legacy systems.

The purpose of this section is to identify the SAP/APO side of the reconciliation. Each market will need to localize this instruction to document the legacy steps. The final reconciliation should cover all legacy to SAP/APO steps. This section will provide SAP/APO support for that full reconciliation.

A local data owner or their designate will execute the reconciliation in the market. It is expected this person understand in detail the purpose and use of the object.

Approach

Validation of the upload program can be done via the Monitor function in transaction RSA1 in BW and in APO.

Data reconciliation will be carried out in BW as well as in APO.

Both, upload validation and data reconciliation are carried out in transaction RSA1 in both the BW - and APO system in same way.

The input sheet must be compared to the APO InfoCubes content that can be exported into an Excel sheet.

An additional validation is done in the APO Planning Book.

Tools

Program validation

- transaction RSA1 Administrator Workbench

Data Reconciliation in BW/APO

– transaction RSA1 Administrator Workbench

Method

Program validation

- Transaction RSA1

- Select relevant InfoPackage (for which the load was run), by first selecting Application Component, infosource, and source system.

- Select Menu bar Go to -> Monitor.

Here all information (successful, unsuccessful loads, details) can be found about the loads that has been done for this particular InfoPackage.

In the left pane you can drill down in the objects. Each run performed in the InfoPackage gets its unique request ID. This can be used for identification of the desired run.

Data Reconciliation in BW and APO

Two reconciliations can be done in both BW and APO.

Both the reconciliations should be first done in BW (central) system, and then in APO system.

One in staging area of PSA, and another in Infocube. Both the methods are mentioned below.

1st Validation

- Transaction RSA1 (Menupath: BW Administration > Administration Workbench)
- Select PSA from left pane
- Identify the InfoPackage, for which the load was run, by the time
- Select and push the first icon on infopackage, as shown in the diagram below.
- Staging Data can now be viewed.
- Export data to excel spreadsheet via List --> Save -->File
- Validate data

2nd Validation

- Transaction RSA1 (Menupath: BW Administration > Administration Workbench)
- Select PSA from left pane
- Identify the InfoPpackage, for which the load was run, by the time
- Select and push the second icon on infopackage, as shown in the diagram below.
- Push button InfoCube Contents
- Select relevant characteristics and key figures, if asked for.
- Data can now be viewed.
- Export data to excel spreadsheet via List --> Save -->File
- Validate data

Additional analyses can be performed using SAP Business Explorer Analyser.

Data Reconciliation in APO in Planning Book

- transaction /SAPAPO/SDP94
- Read end user script for Interactive Planning, located in Knowledge Warehouse
- Transaction: /SAPAPO/SDP94 (Menupath: Demand Planning > Planning > Interactive Demand Planning)
- Select the relevant planning book
- Select characteristics - locations, products etc.

- Check the values in the planning book.


This is helpful for an individual check, for a product, location, time bucket and key figure level.

Also obtain total for characteristics and key figures, following the next steps:

- Press the object selection button, in the object selection screen enter the planning version, location and all products involved in the loading, and press ENTER:

- Double click in the location row and the values for the key figures and buckets will show up.

- Obtain the row's totals by selecting from the menu: Settings > Row totals > All columns.

For the downloading into an excel file, press the save locally button  and then validate data.

Correction

If very small errors (few dozens) are found, they should be manually corrected in the correct Planning Book. Access the end user script in the Knowledge Warehouse for instructions on how to work with Interactive Demand Planning. This should be done in APO system.

If small errors are found (few thousands or hundreds), load the delta values (positive or negative) again in BW system.

If errors are found in a large number of records, delete the relevant load, which is identified by a unique request id..And load the data again, with corrected data in BW system.

Menupath for deletion of load: BW Administration > Administration Workbench > PSA (in left Pane) > Select relevant InfoPackage > Select Infocube icon > Go to Requests tab > Select relevant request id > Delete

Repetition

It is possible to run InfoPackages more than once. Each run can be identified by a unique Request ID.

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