

BW PtP - Sprint PIR Price change

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General presentation

Objective of the application

This report / application is to track the **Purchase Info Record** price change information by change date

Before this report, the business was retrieving information on Purchasing Info Record (PIR) price changes from the following back end reports (the reports have a different name per back end report in PF1 and WP1 but are basically the same):

TRANSACTION	PROGRAM	DESCRIPTION
ZWPU83	ZWPUR05800	Report for PIR Price Modifications – WP1
Z1M_PIR_PRICE_MODIFS	Z1M_PIR_PRICE_MODIFS	Report for PIR Price Modifications – PF1

The above reports provide differences in Price only when the calculations based on the Condition records assigned to the PB** conditions set at PIR (Changes to the PIR's price condition, which are saved in table CDHDR with OBJECTCLAS = COND_A.). But, there are several other factors that impacts the PIR price information changes. This application is to handle all the relevant factors that affect the PIR price changes.

Tool Leader + IT leader of the application:

Reporting Coordinator : Duarte Costa (Lisbon)

Purchasing Data and P-t-P Interface Manager : Sylvie Severini (Brussels)

Usage information

D&A and buyers are the key users of this report

History

Business requested a BW report that can provide a structure similar to the above mentioned reports in PF1 and WP1 and that is able to provide the price changes per material Base Unit of Measure and also per last condition record unit of measure considering changes done not only to the condition records but the Price Unit information and its quantity conversions.

Requestor: Luis Dias

Roles & Access

Roles and access

List of application role + menu role and explanation if we have several applications role with specials rules.

Role Code	Role Description	Explanation
ZR_RCS_CA_M04	SPRINT - Purchasing	Role menu ZR_RCS_CA_M04 uses application role ZR_RCS_SPRINT2_A01 linked to IA_PUR_SPRINT* Authorization Object ZBI_SPRINT2 / Authorization on zone, GBU, Plant.

Authorization objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
Plant (C_PLANT)	ZR_*_CA_P02 ZR_7866_CA_P02 => Plant 7866 - Chalampé (ex 7027) - (Cie ZFR9) ZR_TOUT_CA_P02 => All Plants "Solvay"

Dataflow overview

Extraction:

The key logic was built in extractor. The extraction logic was built in such a way that the relevant field's (that affect the price changes) old value and new value should be captured in the extraction.

But, the key challenge is we always have the latest values in the tables. Previous values can only be captured using the change documents (CDHDR & CDPOS).

Example:

If Purchase order unit of measure (EINA-MEINS) changed from KG to TO...

We will have the value "TO" in the table EINA. But to get the previous value (KG), we need to scan through all the change documents for that PIR.

Extraction logic:

Only the below list of 12 fields are relevant for price differences.

Display Info Record: General Data

Purch. Org. Data 1 Conditions Texts

Info Record: 5300275080
 Vendor: 57549 INOVYN FRANCE SAS
 Material: 95636 CAUSTIC SODA 50% SOL RAYON GRADE BU
 Material Group: 0451 CHEM PROD >RAW MAT

Vendor Data		Origin Data	
1st Rem./Exped.	5- Days	Certif. Cat.	
2nd Rem./Exped.	1 Days	Certificate	
3rd Rem./Exped.	3 Days	Valid to	
Vendor Mat. No.		Ctry of Origin	FR
Vendor Subrange		Region	69
VSR Sort No.	0	Number	
Vendor Mat. Grp		Manufacturer	
Points	0,000 / 1 KG	Supply Option	
Salesperson	Carmen HERTER	Available from	
Telephone	04 72 69 95 92		

Purchase Order Unit of Measure: EINA-MEINS
 Denominator for Conversion of Order Unit to Base Unit: EINA-UMREN
 Numerator for Conversion of Order Unit to Base Unit: EINA-UMREZ

Purchase Order Unit of Measure
 Order Unit: TO
 Conversion: 1 TO <-> 1 000 KG
 Base Unit of Measure (BUoM): EINA-LMEIN
 Var. Order Unit: Not active

Change Info Record: Purch. Organization Data 1

General Data Conditions Texts

Info Record: 5300275080
 Vendor: 57549 INOVYN FRANCE SAS
 Material: 95636 CAUSTIC SODA 50% SOL RAYON GRADE BU
 Material Group: 0451 CHEM PROD >RAW MAT
 Purchasing Org.: 3006 Plant: 7681 Standard

Control

Pl. Delv. Time: 7 Days Tol. Underd.: 10,0 % No MText:
 Purch. Group: E00 Tol. Overd.: 10,0 % Ackn. Rqd:
 Standard Qty: 60 TO Unlimited: Conf. Ctr: 2011
 Minimum Qty: 60 TO GR-Bsd IV: Tax Code: UZ
 Rem. Shelf Life: 1 D No ERS:
 Origin Accept.:

Net Price in Purchasing Info Record: EINE-NETPR
 Currency Key: EINE-WAERS
 Price Unit: EINE-PEINH
 Order Price Unit (Purchasing): EINE-BPRME

Conditions

Net Price: 350,00 EUR / 1 AIT Valid to: 07.11.2017
 Effective Price: 350,00 EUR / 1 AIT No Cash Disc.:
 Qty Conv.: 2 004 TO <-> 1 000 AIT Cond. Grp:
 Pr. Date Cat.: 2 Delivery Date

Denominator for Conv. of Order Price Unit into Order Unit: EINE-BPUMN
 Purchase Order Unit of Measure: EINA-MEINS
 Numerator for Conversion of Order Price Unit into Order Unit: EINE-BPUMZ
 Price Valid Until: EINE-PRDAT

Using the function module "CHANGEDOCUMENT_READ", the extractor picks the change documents of the given date range. Only by keeping the above 12 field's changes, remaining changed were discarded.

In that selected documents, for each change document and its PIR, the subsequent document will be verified in the same list that was selected. If the subsequent document found in the selected list, we will read that document to capture both old & new values. Old values are considered from old change document number and the new value considers from the next available subsequent change document for the same PIR.

If the subsequent document is not found in the initially selected documents, the program again scans for the next available change document of the PIR number. This way of scanning continues for all the relevant 12 fields changes are found. Using both the change documents, it captures both old values & new values of each change document. If subsequent change document is not found for any of the PIR, it means; that particular PIR is not changed after. It means, the existing value for that PIR is the new value for that field.

After capturing the both old & new values of each PIR & change document, the extractor gets the outcome in below format.

Result of Extraction of DataSource DTS_BW_PIR_PRCHANGE

Object Value	Doc. no.	User	Date	Time	TCode	Table	Table Key	Old value	New value	Old value	New value	Old value	New value	Old value	New value	Old value	New value		
530000689	4412155	PT99375658	03.01.2017	17:04:45	ME12	EINE	1105300006689300600195	KG	KG	1	1	1	1	KG	KG	0,00 EUR	5,00 EUR	EUR	EUR
530000688	4412157	PT99375658	03.01.2017	17:06:13	ME12	EINE	1105300006688300600195	KG	KG	1	1	1	1	KG	KG	0,00 EUR	5,00 EUR	EUR	EUR
5300005323	4416502	DJUVANON	18.01.2017	18:01:40	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	160,84 USD	160,84 USD	USD	USD
5300005323	4417081	DJUVANON	19.01.2017	14:48:17	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	158,35 USD	162,84 USD	USD	USD
5300005323	4419752	DJUVANON	25.01.2017	17:04:35	ME13	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	162,84 USD	158,35 USD	USD	USD
5300005323	4484088	INRJ0226	27.03.2017	14:19:40	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	158,35 USD	162,84 USD	USD	USD
5300005323	4484107	INRJ0226	27.03.2017	14:44:20	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	162,84 USD	160,84 USD	USD	USD
5300005323	4484201	INRJ0226	27.03.2017	18:16:17	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	160,84 USD	162,84 USD	USD	USD
5300005323	4484578	INRJ0226	28.03.2017	13:09:47	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	162,84 USD	160,84 USD	USD	USD
5300005323	4484758	INRJ0226	28.03.2017	15:46:21	ME12	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	160,84 USD	162,84 USD	USD	USD
5300005323	4508831	DJUVANON	31.03.2017	13:56:47	ME13	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	162,84 USD	179,98 USD	USD	USD
5300005323	4508835	DJUVANON	31.03.2017	14:02:54	ME13	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	179,98 USD	189,98 USD	USD	USD
5300005323	4508849	DJUVANON	31.03.2017	14:12:30	ME13	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	189,98 USD	191,50 USD	USD	USD
5300005323	4508851	DJUVANON	31.03.2017	14:18:15	ME13	EINE	1105300005323301400267	KG	KG	1	1	1	1	KG	KG	191,50 USD	192,50 USD	USD	USD

Old value	New value	Old value	New value	Old value	New value	Old value	New value	Old value	New value	Info record	Vendor	Material	POrg	Plant	PGr	Crcy
1	1	KG	KG	1	1	1	1	99991231	99991231	530000689	92202	92207	3006	0195	F01	EUR
1	1	KG	KG	1	1	1	1	31.12.9999	31.12.2017	530000688	92202	92208	3006	0195	F01	EUR
1000	1000	KG	KG	1	1	1	1	31.12.9999	31.12.2017	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD
1000	1000	KG	KG	1	1	1	1	20171231	20171231	5300005323	51033	72947	3014	0267	GEG	USD

Each record represents the above said 12 fields old and new values at change document level.

The extractor is available in both the Solvay & Rhodia systems (WP1 & PF1)

BW Data model:

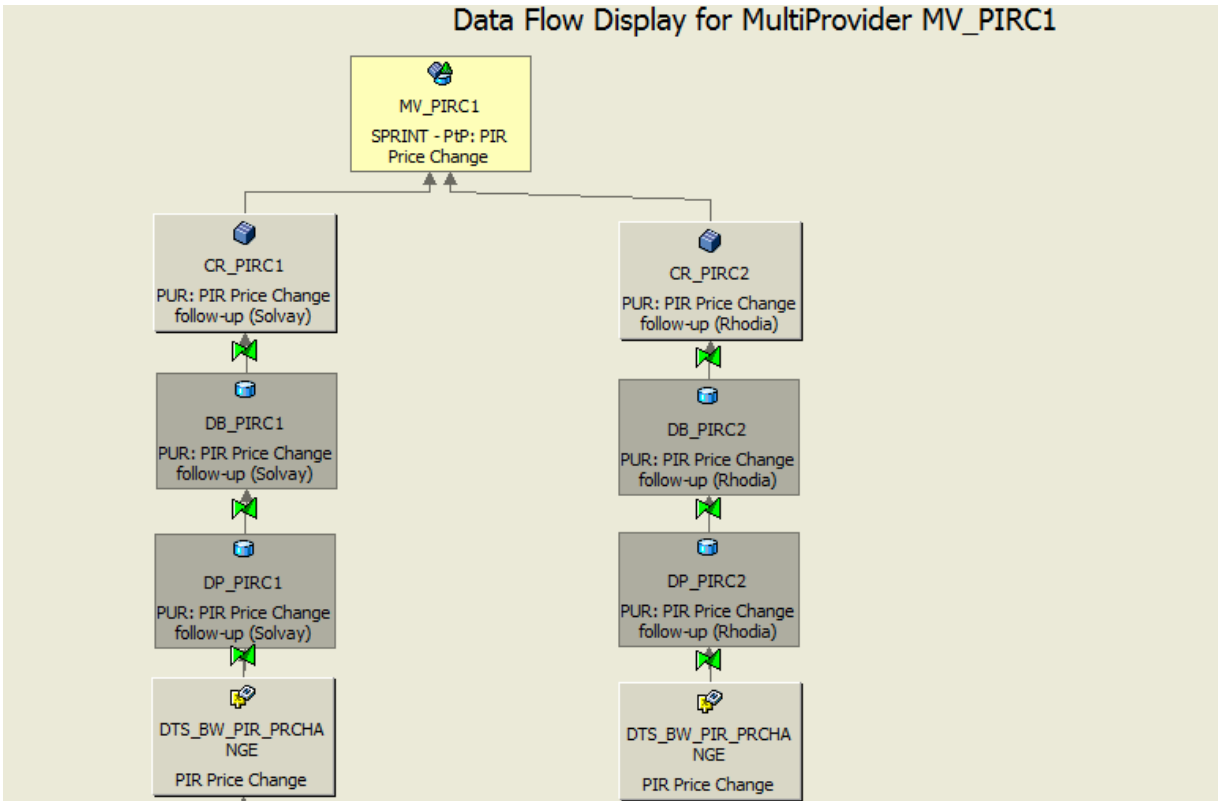
Just for the sake of quick understanding here is the field mapping details between data source fields & BW info objects

C_O* Old Value

C_N* New Value

DP_PIRC1		DB_PIRC1	
C_O_MEINS	PO Unit of Measure	OPO_UNIT	
C_N_MEINS		OUNIT	
C_O_UMREN	Denominator	ODENOMINTR	
C_N_UMREN		K_DENMNTR	
C_O_UMREZ	Numerator	ONUMERATOR	
C_N_UMREZ		K_NUMERTR	
C_O_LMEIN	Base Unit of Measure	OBASE_UOM	
C_N_LMEIN		C_BASUOM2	
C_O_NETPR	Net Price in PIR	ONETPRICE	OLOC_CURRCY
C_N_NETPR		ONET_PRICE	ODOC_CURRCY
C_O_WAERS	Currency	OORDER_CURR	
C_N_WAERS		OCURRENCY	
C_O_PEINH	Price Unit	OPRICE_UNIT	

C_N_PEINH		K_PEINH	
C_O_BPRME	Order Price Unit	C_OP_UNIT	
C_N_BPRME		C_FNEWUNT	
C_O_BPUMN	Denominator1	K_BPUMN	
C_N_BPUMN		K_DNMNTR1	
C_O_BPUMZ	Numerator1	K_BPUMZ	
C_N_BPUMZ		K_NUMRTR1	
C_O_PRDAT	Validity date	C_PRDAT	
C_N_PRDAT		C_LPRDAT	
U_DEV_FIA	Vendor Currency	U_DEV_FIA	



SPRINT - PtP: PIR Price Change	MV_PIRC1	Change	
PUR: PIR Price Change follow-up (Rhodia) (business)	CR_PIRC2	Manage	InfoProviders
ODSO DB_PIRC2 -> CUBE CR_PIRC2	0DAUB1JQVGVGHCFE2V7UMBNUKR...	Change	
PUR: PIR Price Change follow-up (Rhodia) (business)	DB_PIRC2	Manage	InfoProviders
ODSO DP_PIRC2 -> ODSO DB_PIRC2	0TRGBO25RI130YW0VW0G84M79...	Change	
PUR: PIR Price Change follow-up (Rhodia)	DP_PIRC2	Manage	InfoProviders
RSDS DTS_BW_PIR_PRCHANGE WD1_110 -> ODSO DP_PIRC2	0EPQ4HXA24FDJAGCOE8528PYD...	Change	
PIR Price Change	DTS_BW_PIR_PRCHANGE	Change	DataSources, WD1_110
Data Transfer Processes	DP_PIRC2	Create Data Tr...	
Data Transfer Processes	DB_PIRC2	Create Data Tr...	
Data Transfer Processes	CR_PIRC2	Create Data Tr...	
PUR: PIR Price Change follow-up (Solvay) (business)	CR_PIRC1	Manage	InfoProviders
ODSO DB_PIRC1 -> CUBE CR_PIRC1	01WHWY9LTPDAD8CCBIZRDRK4Q...	Change	
PUR: PIR Price Change follow-up (Solvay) (business)	DB_PIRC1	Manage	InfoProviders
ODSO DP_PIRC1 -> ODSO DB_PIRC1	0EG3MT3QI1NV4J3PVMGNELOD5F...	Change	
PUR: PIR Price Change follow-up (Solvay)	DP_PIRC1	Manage	InfoProviders
RSDS DTS_BW_PIR_PRCHANGE DF1_020 -> ODSO DP_PIRC1	0C03PWISQP7YLLS6Q1MNWH1TIX...	Change	
PIR Price Change	DTS_BW_PIR_PRCHANGE	Change	DataSources, DF1_020
Data Transfer Processes	DP_PIRC1	Create Data Tr...	

Extractor brings the data in to BW with both old & new values of the PIR at change document level.

The extraction data mapped to the propagation layer DSO, as it is.

The business logic and calculations are built in between propagation layer & business layer DSO's. This include the currency conversions also. Since the conversion is based on the document change date, the currency conversion calculations are done at the transformation level using the conversion rate "CAR1".

Reporting documentation drive folder:

<https://drive.google.com/drive/folders/1Y5hNEimMA3U2j3KsIOGajHkswm7bwZtw>

In the above folder (Link), FSD, TSD & Data source core logic details are available.

Functional and Technical rules on Workbench + Reporting

Rules & Explanations

All the KPI calculations are explained in this section

All the below calculations are performed in below two transformation's end routine.

ODSO DP_PIRC2 -> ODSO DB_PIRC2

ODSO DP_PIRC1 -> ODSO DB_PIRC1

1. Old Price in Order Price Unit in Info record currency = Old Net Price / Old Price Unit

```
IF <result_fields>-price_unit IS NOT INITIAL.  
  <result_fields>-/bic/k_iropop = <result_fields>-netprice /  
  <result_fields>-price_unit.  
ENDIF.  
<result_fields>-/bic/c_curr_1 = <result_fields>-loc_currcy.
```

2. New Price in Order Price Unit in Info record currency = New Net Price / New Price Unit

```
IF <result_fields>-/bic/k_peinh IS NOT INITIAL.  
  <result_fields>-/bic/k_iropnp = <result_fields>-net_price /  
  <result_fields>-/bic/k_peinh.  
ENDIF.
```

3. Delta % in point 1 & 2 = (1 - 2) / 1

```
IF <result_fields>-/bic/k_iropnp IS NOT INITIAL.  
  <result_fields>-/bic/k_delpup = (  
  <result_fields>-/bic/k_iropnp  
  - <result_fields>-/bic/k_iropop ) /  
  <result_fields>-/bic/k_iropnp.  
ENDIF.
```

4. Delta in point 1 & 2 = (1 - 2)

```
<result_fields>-/bic/k_delcup = ( <result_fields>-/bic/k_iropnp  
- <result_fields>-/bic/k_iropop ).
```

5. Old price in base UoM in info record currency

```

IF <result_fields>-base_uom IS NOT INITIAL AND
  <result_fields>-/bic/c_op_unit IS NOT INITIAL.
IF <result_fields>-base_uom = <result_fields>-/bic/c_op_unit.
  IF <result_fields>-price_unit IS NOT INITIAL.
    <result_fields>-/bic/k_irbuop = <result_fields>-netprice /
    <result_fields>-price_unit.
  ENDIF.
ELSEIF ( <result_fields>-/bic/c_op_unit <>
  <result_fields>-base_uom ) AND
  ( <result_fields>-/bic/c_op_unit =
  <result_fields>-po_unit ) AND
  <result_fields>-numerator IS NOT INITIAL.
IF <result_fields>-denomintr IS NOT INITIAL AND
  <result_fields>-price_unit IS NOT INITIAL.
  <result_fields>-/bic/k_irbuop =
  ( <result_fields>-netprice / <result_fields>-price_unit )
  * ( <result_fields>-denomintr / <result_fields>-numerator ).
ENDIF.
ELSEIF ( <result_fields>-/bic/c_op_unit <>
  <result_fields>-base_uom ) AND
  ( <result_fields>-/bic/c_op_unit <>
  <result_fields>-po_unit ) AND
  <result_fields>-numerator IS NOT INITIAL.
IF <result_fields>-denomintr IS NOT INITIAL AND
  <result_fields>-price_unit IS NOT INITIAL AND
  <result_fields>-price_unit IS NOT INITIAL AND
  <result_fields>-/bic/k_bpumn IS NOT INITIAL.
  <result_fields>-/bic/k_irbuop =
  ( <result_fields>-netprice / <result_fields>-price_unit )
  * ( <result_fields>-denomintr / <result_fields>-numerator )
  * ( <result_fields>-/bic/k_bpumz /
  <result_fields>-/bic/k_bpumn ).
ENDIF.
ENDIF.
ENDIF.

```

6. New price in base UoM in info record currency

```

IF <result_fields>-/bic/C_BASUOM2 IS NOT INITIAL AND
  <result_fields>-/bic/C_FNEWUNT IS NOT INITIAL.
IF <result_fields>-/bic/C_BASUOM2 =
<result_fields>-/bic/C_FNEWUNT.
  IF <result_fields>-/bic/K_PEINH IS NOT INITIAL.
    <result_fields>-/bic/k_irbunp =
    <result_fields>-net_price /
    <result_fields>-/bic/K_PEINH.
  ENDIF.
ELSEIF ( <result_fields>-/bic/C_FNEWUNT <>
  <result_fields>-/bic/C_BASUOM2 ) AND
  ( <result_fields>-/bic/C_FNEWUNT =
  <result_fields>-unit ) AND
  <result_fields>-/bic/K_NUMERTR IS NOT INITIAL.
IF <result_fields>-/bic/K_DENMNTR IS NOT INITIAL AND
  <result_fields>-/bic/K_PEINH IS NOT INITIAL.
  <result_fields>-/bic/k_irbunp =
  ( <result_fields>-net_price /
  <result_fields>-/bic/K_PEINH )
  * ( <result_fields>-/bic/K_DENMNTR /
  <result_fields>-/bic/K_NUMERTR ).
ENDIF.
ELSEIF ( <result_fields>-/bic/C_FNEWUNT <>
  <result_fields>-/bic/C_BASUOM2 ) AND
  ( <result_fields>-/bic/C_FNEWUNT <>
  <result_fields>-unit ) AND

```

```

  <result_fields>-/bic/K_NUMERTR IS NOT INITIAL.
IF <result_fields>-/bic/K_DENMNTR IS NOT INITIAL AND
  <result_fields>-/bic/K_PEINH IS NOT INITIAL AND
  <result_fields>-/bic/K_DNMNTR1 IS NOT INITIAL.
<result_fields>-/bic/k_irbunp =
  ( <result_fields>-net_price /
  <result_fields>-/bic/K_PEINH )
  * ( <result_fields>-/bic/K_DENMNTR /
  <result_fields>-/bic/K_NUMERTR )
  * ( <result_fields>-/bic/K_NUMRTR1 /
  <result_fields>-/bic/K_DNMNTR1 ).
ENDIF.
ENDIF.
ENDIF.

```

7. Delta % of Old price in base UoM in info record currency & New price in base UoM in info record currency

```

IF <result_fields>-/bic/k_irbuop IS NOT INITIAL.
  <result_fields>-/bic/k_delpbp = (
  <result_fields>-/bic/k_irbunp - <result_fields>-/bic/k_irbuop
  ) / <result_fields>-/bic/k_irbuop.
ENDIF.

```

8. Delta in Old price in base UoM in info record currency & New price in base UoM in info record currency

```

IF <result_fields>-/bic/k_irbuop IS NOT INITIAL.
  <result_fields>-/bic/k_delcbp = (
    <result_fields>-/bic/k_irbunp - <result_fields>-/bic/k_irbuop
  ).
ENDIF.

```

9. Old Price in Order Price Unit in Vendor Currency

```

IF <result_fields>-loc_currcy = <result_fields>-/bic/u_dev_fia.
  <result_fields>-/bic/k_opvcop = <result_fields>-netprice.
  <result_fields>-/bic/c_vcurr = <result_fields>-/bic/c_curr_1.
ELSE.

```

Convert the NETPRICE to vendor currency using FM "Convert_To_Foreign_Currency"

10. New Price in Order Price Unit in Vendor Currency

Convert the NET_PRICE to vendor currency using FM "Convert_To_Foreign_Currency"

11. Delta % of old & New order price Unit in vendor currency

Convert the K_DELPUP to vendor currency using FM "Convert_To_Foreign_Currency"

12. Delta of old & New order price Unit in vendor currency

Convert the K_DELCUP to vendor currency using FM "Convert_To_Foreign_Currency"

13. Old price in base UoM in Vendor currency

Convert the K_IRBUOP to vendor currency using FM "Convert_To_Foreign_Currency"

14. New price in base UoM in Vendor currency

Convert the K_IRBUNP to vendor currency using FM "Convert_To_Foreign_Currency"

15. Delta % of Old price in base UoM in Vendor currency & New price in base UoM in Vendor currency

Convert the K_IRBUOP to vendor currency using FM "Convert_To_Foreign_Currency"

16. Delta in Old price in base UoM in Vendor currency & New price in base UoM in Vendor currency

Convert the K_IRBUNP to vendor currency using FM "Convert_To_Foreign_Currency"

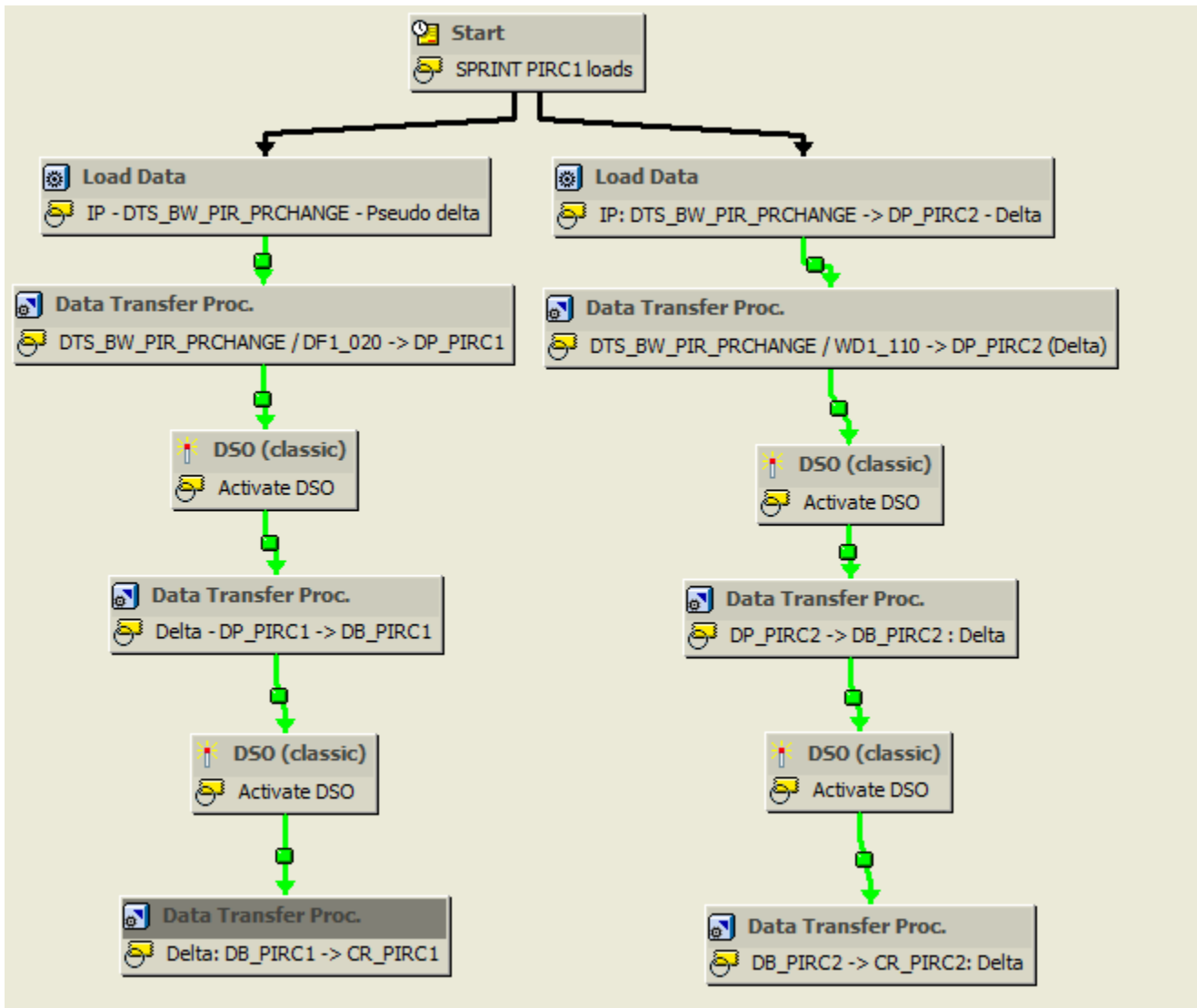
Dependencies with other applications

This is an independent data model.

Data loadings

Info providers and objects loaded

Process Chain: PC_SPRINT_PIRC1



Loading frequency

Daily loads (except week end) using pseudo delta with current day - 4 days logic

Average performance

Key Figure	Estimation
~ Average Process Chain Runtime	2 minutes
~ Average nb of rows loaded per load	50 - 100
~ Total nb of rows loaded (if full)	
~ Average Runtime for 10k lines	

Record Keeping

Data loaded from 2015 - till date

Reporting

Queries End User Documentation

Main queries

The core Query:

BW_QRY_MV_PIRC1_0001 - SPRINT - PUR : PIR Price Analysis (Core Query)

Filters:

The screenshot shows the 'Filter' dialog box in SAP. The title bar reads 'Filter'. Below the title bar, there is a section titled 'Characteristic Restrictions' with a grid icon. The list of restrictions is as follows:

- [0LOGSYS] Source System
 - [V_LOGSYS_0013] Source System (Several Single values, Optional)
- [0DOC_DATE] PIR Change Date
 - [V_PIR_DATE_0001] PIR Change Date (Interval, Mandatory)
- [C_INFOREC] PIR (Purchase Info Record)
 - [V_PIR_0001] PIR (Purchase Info Record)
- [C_VENDID] Vendor
 - [SOO_C_VENDID_0002] Vendor (Selection Option, Optional)
- [C_EKORG] Purchasing Organisation
 - [V_EKORG_0001] Purchasing Organization
- [C_MATNR2] Material
 - [SOO_C_MATNR2_0001] Material (Selection Option, Optional)
- [C_PLANT] Plant
 - [V_C_PLANT_0010] Plant (Selection Option, Optional)
- [C_EKGRP] Purchasing Group
 - [V_EKGRP_0001] Purchasing Group
- [C_USRNAM] PIR Change User
 - [V_CREATED_0001] PIR Change User
- [C_MATPNT2__CPFCTR1_2] Global Business Unit
 - [V_CPFCTR1_2_0003] BFC GBU (Authorization without input)
- [C_PLANT__C_AUTHMA] Authorization Scope
 - [V_C_PLANT__C_AUTHMA_002] Auth Scope on Plant (Auth with input)
- [C_VENDID__C_DOMAIN] Vendor Domain (P)
 - [V_SOO_VEND_DOMAIN] Vendor Domain (P)
- [C_VENDID__C_SEG] Vendor Segment (P)
 - [V_SOO_VENDID_SEG_0001] Vendor Segment (P)
- [C_MAT_GRP__C_DOMAIN] Material Group Domain (P)
 - [V_SOO_MATGRP_DOM_0001] Material Group Domain (P)
- [C_MAT_GRP__C_SEG] Material Group Segment (P)
 - [V_SOO_MATGRP_SEG_0001] Material Group Segment (P)

Rows:

Rows	
	[0LOGSYS] Source System
	[C_INFOREC] PIR (Purchase Info Record)
	[C_CHNGNR] PIR Change Document

Columns:

Columns	
Key Figures	
	Old Price in PIR in Ord PU
	[0NETPRICE] Net price
	[K_IROPOP] Old Price in PIR in Ord PU
	New Price in PIR in Ord PU
	[0NET_PRICE] Net price
	[K_IROPNP] New Price in PIR in Ord PU
	Delta % (New - Old) Price in PIR in Ord PU
	[K_DELPUP] Delta % (Old - New) Price in PIR in Ord PU
	Delta (New-Old) Price in PIR in Ord PU
	[K_DELCUP] Delta (Old - New) Price in PIR in Ord PU
	By Mat Base UoM
	Old Unit Price in Base UoM
	[K_IRBUOP] Old Unit Price in Base UoM
	New Unit Price in Base UoM
	[K_IRBUNP] New Unit Price in Base UoM
	Delta % (Old - New) Unit Price in PIR in BUoM
	[K_DELPBP] Delta % (Old - New) Unit Price in PIR in BUoM
	Delta (Old - New) Unit Price in PIR in BUoM
	[K_DELCBP] Delta (Old - New) Unit Price in PIR in BUoM (H)
	By Vendor Curr
	Old Ord Pr in Vend Curr
	[K_OPVCOP] Old Ord Pr in Vend Curr
	New Ord Pr in Vend Curr
	[K_OPVCNP] New Ord Pr in Vend Curr
	Delta % Ord Pr in Vendor Curr
	[K_DVCOPP] Delta % in Vendor Curr
	Delta in Ord Pr Vendor Curr
	[K_DVCOPC] Delta in Vendor Curr
	By Base UoM in VC
	Old Unit Ord Pr in BUoM VC
	[K_OPVCOPB] Old Unit Ord Pr in BUoM VC
	New Unit Ord Pr in BUoM VC
	[K_OPVCNPB] New Unit Ord Pr in BUoM VC
	Delta % (New-Old) Unit Price in BUoM Vend Curr
	[K_DELPVC] Delta % (Old - New) Unit Price in BUoM Vend Curr
	Delta (New-Old) Unit Price in BUoM Vend Curr
	[K_DELCVC] Delta (Old - New) Unit Price in BUoM Vend Curr

Area for Dimensions

Area for Dimensions

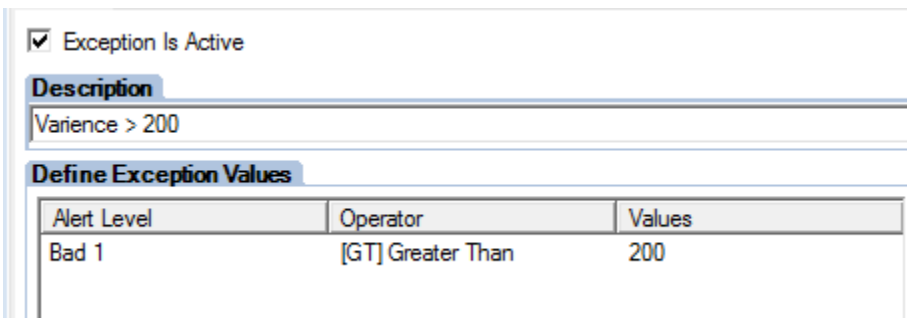
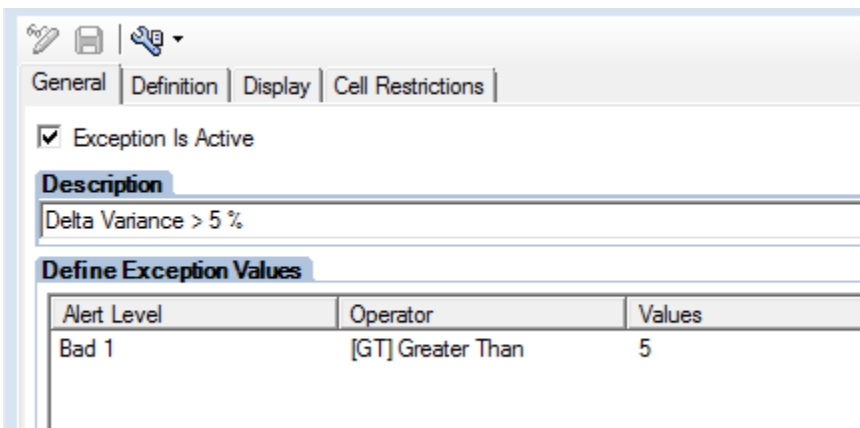
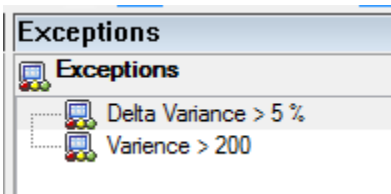
All the key figures are displayed without dimensions (units) as requested by business

Exceptions:

As per the business requirement, there are two exceptions in the query to show in different color where...

Delta variance is greater than 5%

Variance greater than 200



Selection Screen:

Specify Value for Prompts

[V_LOGSYS_0013] Source System (Several Single valu...	WP1_400		
	PF1_020		
* [V_PIR_DATE_0001] PIR Change Date (Interval, Man...			
[V_PIR_0001] PIR (Purchase Info Record)	=		
[V_C_PLANT_0010] Plant (Selection Option, Optional)	=		
[V_EKORG_0001] Purchasing Organization	=		
[V_EKGRP_0001] Purchasing Group	=		
[SOO_C_VENDID_0002] Vendor (Selection Option, O...	=		
[V_SOO_VEND_DOMAIN] Vendor Domain (P)	=		
[V_SOO_VENDID_SEG_0001] Vendor Segment (P)	=		
[SOO_C_MATNR2_0001] Material (Selection Option,...	=		
[V_SOO_MATGRP_DOM_0001] Material Group Doma...	=		
[V_SOO_MATGRP_SEG_0001] Material Group Segme...	=		
[V_CREATED_0001] PIR Change User			

Report Output:

A	B	C	D	E	F	G	H
Source System	PIR (Purchase Info Record)	PIR Change Document	Old Price in PIR in Ord PU	New Price in PIR in Ord PU	Delta % (New - Old) Price in PIR in Ord PU	Delta (New-Old) Price in PIR in Ord PU	
WP1 Client 400	##/##/5300303154	392026829	0.00	0.00		0.00	0.00
	##/##/5300427218	391558509	0.00	0.00		0.00	0.00
	/3001/##/5300131763	391567555	17.05	17.05		0.00	0.00
	/3001/##/5300144382	391592707	239.81	239.81		0.00	0.00
	/3001/##/5300249781	391611148	98.00	98.00		0.00	0.00
	/3001/##/5300249986	391608063	55.30	55.30		0.00	0.00
	/3001/##/5300260332	391611470	61.30	61.30		0.00	0.00
	/3001/##/5300263206	391611468	0.42	0.42		0.00	0.00
	/3001/##/5300263207	391608003	32.00	32.00		0.00	0.00
	/3001/##/5300264351	391611449	61.00	61.00		0.00	0.00
	/3001/##/5300391239	391545322	14.90	14.90		0.00	0.00
	/3002/##/5300357897	392108623	10.29	1.15		-88.82	-9.14
		392109263	1.15	1.15		0.00	0.00
		392109324	1.15	0.00		-100.00	-1.15
	/3002/##/5300423258	391858418	611.00	611.00		0.00	0.00
	/3004/##/5300000300	391564351	15.76	10.01		-36.48	-5.75
	/3004/##/5300000321	391564411	476.85	331.34		-30.51	-145.51
	/3004/##/5300000325	391589575	0.00	90.27		0.00	90.27
	/3004/##/5300000559	391554421	0.00	3,900.00		0.00	3,900.00
	/3004/##/5300002514	391571135	389.00	389.00		0.00	0.00
	/3004/##/5300005560	391579235	18.98	18.98		0.00	0.00
	/3004/##/5300017393	392102881	455.00	367.52		-19.23	-87.48
	/3004/##/5300017823	391989909	289.30	328.35		13.50	39.05

Exception example:

