

OP.106

IAC 01.02. Variance analysis

Process: [Product Costing](#)

Responsibility area: [Internal Control Monitor](#)

Risk

FRA justifies the usage of manual costing vs a reference list validated by plant manager and GCCO, controls inventory revaluation and analyzes variances

Process description

Variances of production costs are analyzed monthly to ensure inventory valuation and cost of sales accuracy

Control description

FRA:

1. WP2 description:
 1. compares list of manual costing vs result of ZWOCO50 transaction
 2. analyzes product costing variances month over month and checks that there were no blocking errors (CK40N reports)
 3. analyses variances (actual vs target) with the variable & fixed cost split (ZWPP_MCKOST or IMEP BW reports)
 - ZWOCO050 file with comments
 - CK40N checklist + CK40N analysis template
2. PF2 description:
 - 1 . Analysis of material cost variances Month N vs Month N-1 above 10K Materiality (ZZM_MAT_VAL_COMP report) r ZWPP_MCKOST or IMEP BW reports) with comments

Scope

WP2 & PF2

Frequency

D10

Control owner

[Finance Responsible Assigned \(FRA\)](#)

References

**Error rendering
macro
'contentbylabel'**

parameters should
not be empty

Content by label

There is no content with the specified labels

Control evidences

[IAC 01.02 Monthly variance analysis, CCR, manual costing.xls](#)

[IAC 01.02 template PF2.xlsx](#)

Guideline

Download the file [IAC 01.02 Monthly variance analysis, CCR, manual costing.xls](#)

There are 9 sheets in the file :

IAC.01.02 - Monthly variance analysis, CCR validation and justification of manual costing

This template concerns the IAC 01.02. The objective is to justify the usage of manual costing vs reference list validated by plant manager and GCCO, control inventors revaluation and analyze variances

1- Commercial price justification

Compare list of manual costing validated by plant manager and GCCO vs result of ZWOCO050

- Run the ZWOCO050 transaction
- Attach your ZWOCO050 file (with comments) in the tab named "ZWOCO050" in this Excel template

2- Cost calculation report

Analyze product costing variances month over month and check that there were no blocking errors (CK40N reports)

- Run the CK40N transaction
- Fill in the check list in the tab named check list in this Excel template
- Attach your CK40N analysis in the tab named CK40N in this Excel template

3- Variance analysis

Analyze variance analysis

Fill in Variance Template tab

Fill in "Per analysis plant spec" tab. Run the ZVPP10A transaction

- A. Recurring cases of production line change Please describe for your site
- B. Recurring cases of switch between Raw material / Recycling Please describe for your site
- C. Productivity variance: Standard analysis based on ZVPP10A
- D. Material purchased instead of produced Please describe for your site
- E. Subcontractor variance: Please describe for your site
- F. Others: Please describe for your site

Fill in Revaluation: Run the ZVFA300A transaction tab

Site: _____
 FRA's name: _____
 Date: _____
 Period: _____

Standard Cost Calculation Check-List / FRA
IAC 01.02

N°	Control description	Done ?			Comments (compulsory for No and N/A)	Control Evidence (optional)
		Yes	No	N/A		
1	Messages analysis					
1a	Errors messages in CK40N are checked and corrected (red squares)					
1b	Warning messages are analyzed (yellow triangles)					
2	Excel analysis : all variances above threshold are analyzed *					
3	If applicable, valid legal entity integrated FIFO is used					
4	Control evidences are posted in the IAC erom					
4a	Excel file with variance analysis & comments					
4b	Check-list					
4c	For Materials that are not fully activated is the "Do Not Cost" flag checked					

STEP 1

Start the transaction ZWOCO050

Select the Layout

1. Select Layout by clicking on
2. Click on IAC 01.02

Extraction of the historical updates of material

Updates dates: _____ to _____


User profile: _____

Object: EP ABAP: Variant Directory of Program ZWOCO05000

Material	Variant name	Short Description	Environment	Protected	Changed by	Last changed on
IAC 01.02	IAC 01.02LM	extract all manual modif	A		LMILLER	06.10.2015
IAC 03.08.05	IAC 03.08.05LM	IAC 03.08.05-0241 0257 8073 CA	A		LMILLER	10.10.2013
IAC 03.08.05RW	IAC 03.08.05RW	RWASDEN IAC 03.08.05	A		RWASDEN	04.02.2015
IAC030805 0214	IAC030805 0214		A			
IAC030805 6375			A		ESCHUBER	13.07.2015
IAC030805 6864			A		ESCHUBER	21.10.2015
IAC030805 7523			A		ESCHUBER	21.10.2015
IAC030805 7580			A		ESCHUBER	08.05.2014
IAC030805 8160		Extract all manual modifcabo	A	X	XYZHOU	04.05.2015
IAC030805 ZVE1			A		ESCHUBER	10.03.2014
WJAC 03.08.05		0242 Baton Rouge	A			
WTJAC 03.08.05		8056 University Park	A		JWILL	27.01.2009
NATAC 03.08.05		North America Sites	A			
RSIAC03.08.05		COMMERCIAL PRICE	A		RSCHMITT	30.01.2015
TOLL-IAC030805		Diphenols Offsite Warehouses	A		US70176	06.11.2015
Z-IAC-PLV		IAC385-check manual cost	A		PLV	11.06.2013

STEP 2

1. enter the period

- enter a plant or a list of plants
- click on  to enter the path & the file name

Confirm 4 tables codes in "Field Name"	
VERPR	BEPH1
BWPRH	VJBWH

Extraction of the historical updates of material

Updates dates: 01.10.2015 to 31.10.2015

User profile: MATERIAL

Object class: MBEW

Table name: VERPR

Field Name: 7822

Material: [] to []

Material Type: [] to []

Division: [] to []

Plant: 7822 to []

Select deleted material number ?
Yes : No :

Path and file name to create: E:\Mes documents\Contrôle IAC\ZWOCO050(test01.xls)

Enter the nb of records that will contain the file : 999 999

This will allowed a better cutting for excel or will provided a time-out.
If you don't want any cutting, leave 999999.

STEP 3

Upload the file in excel

- choose the folder where you want to save the file
- enter the file name
- Select "Excel files" in files of type

Extraction of the historical updates of material

Updates dates: 01.10.2015 to 31.10.2015

User profile: Select File

Object: New folder (2)

Table: []

Field Name: []

Material: []

Material Type: []

Division: []

Plant: []

Select: []

Path and file name to create: []

Enter the nb of records that will contain the file : []

This will allowed a better cutting for excel or will provided a time-out.
If you don't want any cutting, leave 999999.

STEP 4

Execute



It may result in a long runtime

Extraction of the historical updates of material

Updates dates: 01.10.2015 to 31.10.2015

User profile: MATERIAL

Object class: MBEW

Table name: VERPR

Field Name: 7822

Material: [] to []

Material Type: [] to []

Division: [] to []

Plant: 7822 to []

Select deleted material number ?
Yes : No :

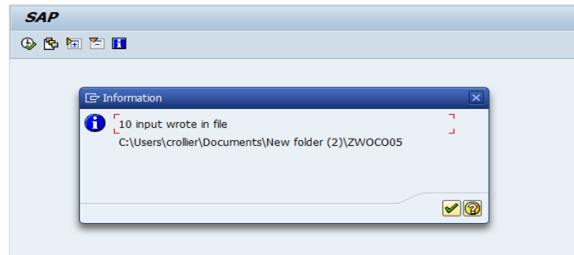
Path and file name to create: C:\Users\croller\Documents\New folder (2)\ZWOCO050 1

Enter the nb of records that will contain the file : 999 999

This will allowed a better cutting for excel or will provided a time-out.
If you don't want any cutting, leave 999999.

STEP 5

There is an information message that informs that inputs were written in the file



STEP 7

The report was saved in excel

Each line of the file has to be justified with the following reason code :

1. Co-product /Sold waste /Recycled material
2. Integrated FIFO
3. Wrong Material file purchase info
4. Erroneous reception
5. Other (detailed explanation to be provided)

Save the file

Example

Material 64569 Blocs exutoire vrac was modified on July, 2nd

The old value was 550 € / T, the new value is 650 € / T

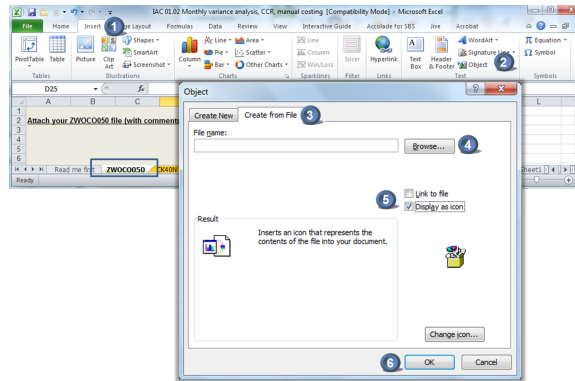
This material is a waste, that's the reason why it has a commercial price. The reason code that corresponds to this modification is the first one : 1-Co-product /Sold waste/Recycled material.

Material no	Description	Material type	Plant	Table name	Field code	Field name	update date	Old value	New value
64569	BLOCS EXUTOIRE VRAC	TRMAT	7822	MSECV	BWPRE	Valuation price based on commercial law level 1	02.07.2009	550.00	650.00

STEP 8

Insert the file ZWOCO050 in the file IAC 01.02 of the month

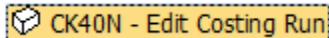
1. Select "insert"
2. Click on "Object"
3. Select "Create from File"
4. Click on "Browse" and select the file
5. Check "Display as icon"
6. Click on OK



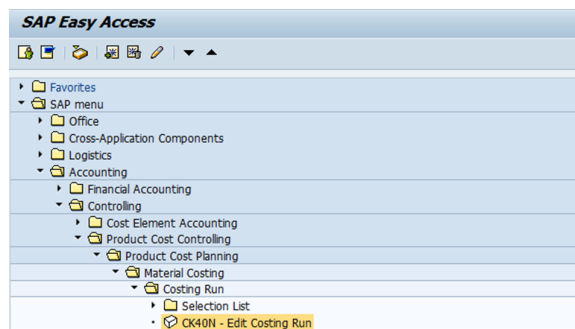
STEP 1

Start the transaction using the menu path or transaction code CK40N

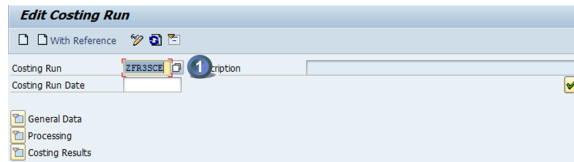
Double-click



STEP 2

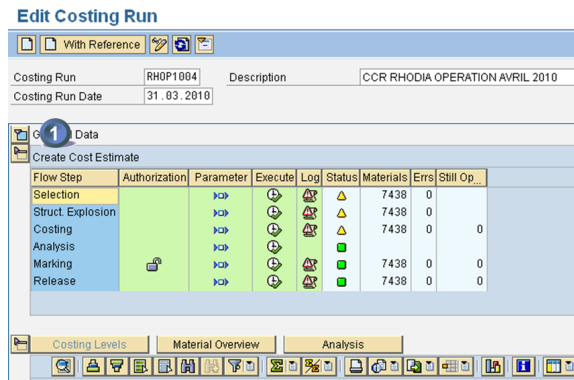


1. enter the costing run of the month and



STEP 3

1. Expand



STEP 4

i All error messages must be cleared

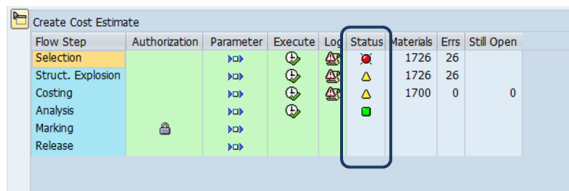
When there is a warning message, it often happens that there is a mistake in the costing. So even if it is not compulsory, it is recommended to check the warning messages and try to correct it.

Note: Sometimes, despite not having any error, some materials remain in column "Still Open". This is related with a technical issue linked to the mixed-costing materials. In order to correct the display table it's necessary to execute transaction CKSU.

STEP 1

WP1 + PF1

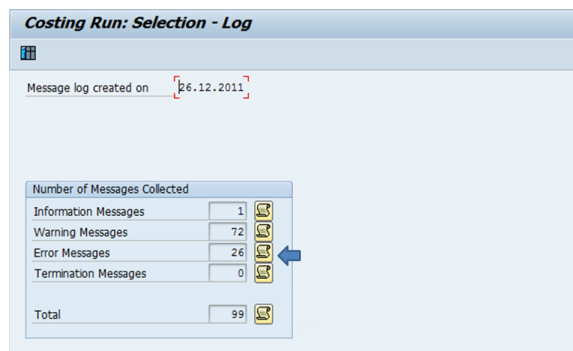
When there are error or warning messages, you must click on to analyse and clear them



STEP 2

WP1 + PF1

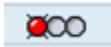
Click on to have the list of messages





STEP 3

WP1 + PF1

1 - Type of message

 **E** Error messages, must be cleared

 **W** Warning messages, must be analysed and cleared as much as possible

 **I** Information messages

2 - Message code

3 - Plant code

4 - Material code

5 - Message description

Costing Run: Selection - Log

Log created on 26.12.2011

Excep...	M...	M...	Plant	Material	Σ	A...	Message Text
	W	128	7811	32787	1	CK	Material 32787 in plant 7811 has no accounting data
	W			77069	1	CK	Material 77069 in plant 7811 has no accounting data
	W			115117	1	CK	Material 115117 in plant 7811 has no accounting data
	W		7818	49739	1	CK	Material 49739 in plant 7818 has no accounting data
	W		7819	110142	1	CK	Material 110142 in plant 7819 has no accounting data
	I	172	7787	1615996	1	CK	Material 1615996 in plant 7787: No cost est. exists -> ra...
	E	310	7714	68858	1	CK	Material 68858 is marked for deletion
	E			19398	1	CK	Material 19398 is marked for deletion
	E			40928	1	CK	Material 40928 is marked for deletion
	E			50775	1	CK	Material 50775 is marked for deletion
	E			66785	1	CK	Material 66785 is marked for deletion
	E			101132	1	CK	Material 101132 is marked for deletion
	E			101628	1	CK	Material 101628 is marked for deletion
	E		7779	66785	1	CK	Material 66785 is marked for deletion

STEP 4

WP1 + PF1

You can double-click on a message to have a more detailed description of the issue

Material 68858 is marked for deletion

Message no. CK310

Diagnosis

Material 68858 was flagged for deletion internally. To delete this deletion flag, you have to change the indicator in the material master record.
[Change material master record](#)



CK060 - Object was not costed

CK249 - Cost component split for material not saved

CK310 - Material is marked for deletion

CK380 - No valid source of supply could be found

CK468 - No price could be determined for subcontracting

CK023 - No control record for Activity type CHEF/X332900700/ZZANO2 in version 000 / 2017 activity planning/qty planning

CK354 - Material XXXX in plant YYY has material status Z4 : Material deleted

CK430 - Missing formula in work center xxxxx

CK862 - Material XXX in plant XXX does not contain any segment for in-house production

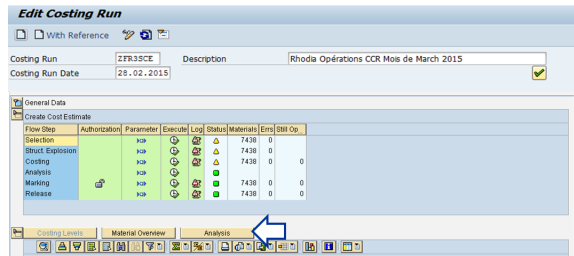


- CK053 - Deletion indicator set in material - plant
- CK054 - Deletion indicator set in material - valuation area
- CK080 - Material plant : BOM not active
- CK082 - Material plant: no suitable BOM found
- CK128 - Material in plant has no accounting data.
- CK382 - Material does not exist in withdrawal plant
- CK858 - No suitable or valid production version

STEP 5

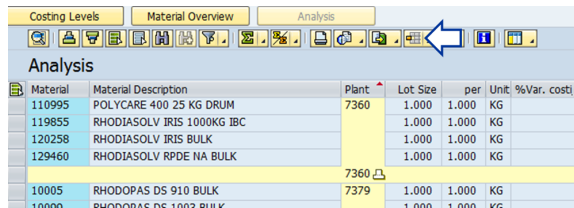
When errors are corrected and warning messages checked, costing analysis can begin. Click on

Analysis



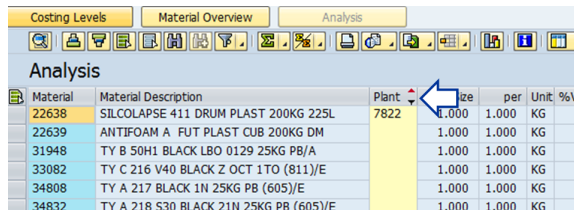
STEP 6

Select the variant. In this example, we are using the variant /IAC0102



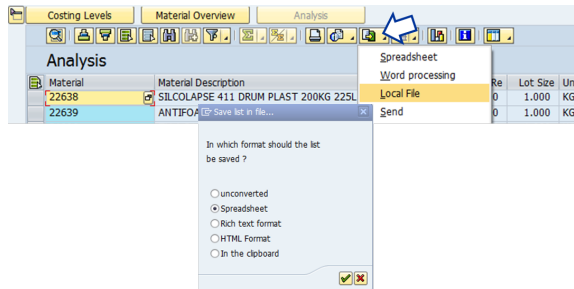
STEP 7

Filter the plant you are responsible for



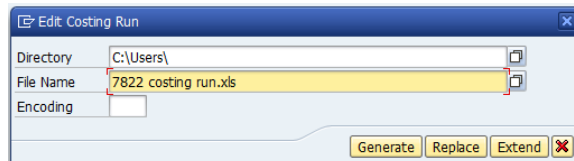
STEP 8

Save in excel : local file => spreadsheet



STEP 9

Enter the directory & the file name and generate the file



i All variances above a defined threshold must be commented. The threshold is defined by the FRA :

- Unit cost variance %
- Inventory revaluation value.

If the threshold is above +/- 10% at unit cost level or +/- 50 k€ at item inventory revaluation level should be authorized by RCOM.

Open the file

If:

- the unit variation is > 10% (or local threshold)
- or Anticipated reval is > 50 KEUR (or local threshold),

a deeper analysis is requested



Material	Material description	Plnt	Lot Size	per	BUin	%Var costing/Ma	Anticip reval	TotalStock	Val MatMa	Costing Re	Var costing/Ma
60444	TY A 250F NOIR 21N 25KG SP (65)E	7822	1000	1000	KG	18.23		0	1 990.48	2 353.40	362.92
60447	TY A 250F NOIR 21N XXXX	7822	1000	1000	KG	-0.99		0	1 941.18	1 922.04	-19.14
60541	MM B50 C RIVET SAC 25 KG	7822	1000	1000	KG	-2.83	-36.34	167	7 685.66	7 468.01	-217.65
60761	TY A 250F NATUREL 25KG SP (65)E	7822	1000	1000	KG	-0.97	-128.04	6 900	2 029.13	2 009.43	-19.7
60858	MM B50 C CANULE SAC 25 KG	7822	1000	1000	KG	-3.94	-76.13	428.2	5 019.53	4 841.73	-177.8
61076	TY SX 11 BL NATUREL 25KG SP (65)E	7822	1000	1000	KG			0	2 360.00	2 360.00	0
61079	TY SX 10 BL NATUREL OCT 1 TO CP8 (811)E	7822	1000	1000	KG			9 181.40	2 693.26	2 693.26	0
61118	CAPROLACTAME 60% VSAC	7822	1000	1000	KG			14 693.20	795.75	795.75	0
64151	MM B329 C CALECHE SAC 25 KG	7822	1000	1000	KG	-33.65		0	5 157.50	3 422.12	-1 735.38
64158	MM B39 C PRISON SAC 25 KG	7822	1000	1000	KG	10.73	31.63	61	4 826.89	5 348.46	519.57
64236	BASE DE NIGROSINE/SOLVANT NOIR 7 FUT	7822	1000	1000	KG	21.69	784.28	488 737	6 642.91	8 083.94	1 441.03
64248	OXYDE ZINC QUALITE HERSE 365/5 25KG SAC	7822	1000	1000	KG	112.4	109.31	65 624	2 159.92	4 587.65	2 427.73

Validate the main variances in % & in value

In this example, the costing of the following materials 60444, 64151, 64158, 64235, 64248 have to be checked and validated

Material	Material description	Plnt	Lot Size	per	BUin	%Var costing/Ma	Anticip reval	TotalStock	Val MatMa	Costing Re	Var costing/Ma
60444	TY A 250F NOIR 21N 25KG SP (65)E	7822	1000	1000	KG	18.23	> 10 %	0	1 990.48	2 353.40	362.92
60447	TY A 250F NOIR 21N XXXX	7822	1000	1000	KG	-0.99		0	1 941.18	1 922.04	-19.14
60541	MM B50 C RIVET SAC 25 KG	7822	1000	1000	KG	-2.83	-36.34	167	7 685.66	7 468.01	-217.65
60761	TY A 250F NATUREL 25KG SP (65)E	7822	1000	1000	KG	-0.97	-128.04	6 900	2 029.13	2 009.43	-19.7
60858	MM B50 C CANULE SAC 25 KG	7822	1000	1000	KG	-3.94	-76.13	428.2	5 019.53	4 841.73	-177.8
61076	TY SX 11 BL NATUREL 25KG SP (65)E	7822	1000	1000	KG			0	2 360.00	2 360.00	0
61079	TY SX 10 BL NATUREL OCT 1 TO CP8 (811)E	7822	1000	1000	KG			9 181.40	2 693.26	2 693.26	0
61118	CAPROLACTAME 60% VSAC	7822	1000	1000	KG			14 693.20	795.75	795.75	0
64151	MM B329 C CALECHE SAC 25 KG	7822	1000	1000	KG	-33.65		0	5 157.50	3 422.12	-1 735.38
64158	MM B39 C PRISON SAC 25 KG	7822	1000	1000	KG	10.73	> 10 %	61	4 826.89	5 348.46	519.57
64236	BASE DE NIGROSINE/SOLVANT NOIR 7 FUT	7822	1000	1000	KG	21.69		488 737	6 642.91	8 083.94	1 441.03
64248	OXYDE ZINC QUALITE HERSE 365/5 25KG SAC	7822	1000	1000	KG	112.4		65 624	2 159.92	4 587.65	2 427.73

as the variance is above 10% or/and the revaluation above 50 k€

Status	
Owner	
Stakeholders	

Purpose

This document outlines the Syensqo-wide approach to data migration and readiness to move to SAP S/4HANA. It establishes a strategic and operational framework to ensure data is clean, reliable, structured and available at go-live.

The objectives are:

- To plan, govern and control data migration activities from legacy systems to the SAP S/4HANA platform.
- To define scope, dependencies, roles, risks and timelines aligned with cutover planning.
- To ensure business engagement and ownership in all data quality and validation activities.
- To meet global regulatory, operational and integration requirements with third-party systems.
- To institutionalize data quality and governance practices that extend beyond go-live.

Background

The migration to SAP S/4HANA is a core enabler of business transformation and digital integration across Syensqo operations. Accurate and high-quality data is critical for the success of this initiative as it directly impacts core business processes, user adoption, reporting accuracy and legal compliance.

This data approach takes into consideration the need to:

- Harmonize disparate legacy system data models into a unified global standard.
- Ensure operational continuity during cutover by preloading critical data and validating business readiness.
- Enable phased go-lives while managing cross-system data dependencies.
- Use repeatable and scalable tools and methods that support global harmonization efforts.

Key steps include:

1. Inventory and classification of all data objects
2. Definition of transformation rules and mappings

3. Execution of data profiling, cleansing and enrichment
4. Mock load cycles for reconciliation and process testing
5. Final cutover execution with validation and audit trails

Data Migration Scope

The scope of data migration for this global ERP transformation encompasses all essential master data, open transactional data and selected historical records required to ensure business continuity, legal compliance and readiness at the point of cutover. Data will be migrated from multiple SAP ECC source systems, legacy third-party applications and local tools into a harmonized SAP S/4HANA environment.

Data Sources

Data Targets

Data Dependencies

The data dependencies diagram will be used to ensure Syensqo's data migration timeline remains achievable, dependent object loads may begin once the corresponding predecessor objects have been technically loaded with 100% success and have passed initial data verification. This approach supports timely execution across all load waves and has been designed to balance efficiency with data integrity.

Link - [Data Dependencies Diagram](#)

Data Migration Process

Data Extraction

Data extraction from Syensqo legacy systems is performed using **Syniti Migrate**, a tool designed specifically to streamline and automate the end-to-end data extraction process. This tool has been selected to align with Syensqo's objective of reducing manual effort, increasing traceability, and accelerating migration readiness.

The adoption of Syniti Migrate offers the following advantages:

- Minimizes dependency on legacy system owners by automating data pulls, reducing manual handovers and time-intensive coordination.
- Enables both full and delta extractions, supporting iterative load cycles and ensuring data accuracy across multiple mock migrations.
- Supports scheduled or on-demand extraction, allowing flexibility to align with validation cycles, mock cutovers and business availability.
- Requires minimal to no custom development within the legacy systems, preserving system stability and reducing the risk of disruptions during the extraction phase.

This tool-driven approach has been integral in maintaining data integrity, auditability and repeatability across Syensqo's global migration waves.

Data Transformation

Data Load

Special Requirements

Team and Deliverables

Functional Team

Deliverables

Roles

Data Team

Deliverables

Roles

Business Team

Deliverables

Roles

Third Party Vendor

Deliverables

Roles

Assumptions

Data Migration Risks & Issues

Risk/Issue	Mitigation Action

Data Validation Process

Pre-Load Validation

Post-Load Validation

Data Privacy

Change log

Version	Published	Changed By	Comment
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CURRENT (v. 6)	Feb 29, 2016 20:27	ROLLIER, Charlotte
v. 5	Feb 29, 2016 20:26	ROLLIER, Charlotte
v. 4	Feb 09, 2016 13:12	Alexandra Lepercq
v. 3	Jan 14, 2016 16:57	Alexandra Lepercq
v. 2	Nov 20, 2015 18:38	ROLLIER, Charlotte
v. 1	Nov 20, 2015 18:05	ROLLIER, Charlotte

Workflow history

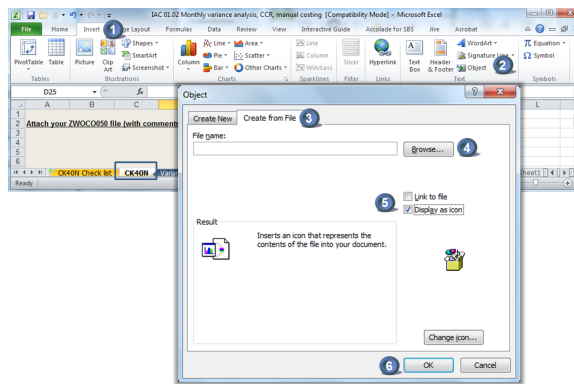
Title **Last Updated** **Updated** **Status**
By

There are no pages at the moment.

STEP 11

When the analysis is completed, insert the file with your comments in the file IAC 01.02 of the month (sheet "CK40N").

1. Select "insert"
2. Click on "Object"
3. Select "Create from File"
4. Click on "Browse" and select the file
5. Check "Display as icon"
6. Click on OK



Once the CK40N analysis was completed, fill the checklist to confirm that all tasks have been properly performed

1. enter your site, name, date & period
2. enter the status of the task
3. when a task has not been performed, it is compulsory to comment
4. integrated FIFO is only applicable in limited cases

Site	
FRA's name	
Date	
Period	



Standard Cost Calculation Check-List / FRA IAC 01.02					
N°	Control description	Done ?		Comments (compulsory for No and N/A)	Control Evidence (optional)
		Yes	N/A		
1	Messages analysis				
1a	Errors messages in CK40N are checked and corrected (red squares)	No			
1b	Warning messages are analyzed (yellow triangles)	Yes			
2	Excel analysis : all variances above threshold are analyzed *	Yes			
3	If applicable, valid legal entity integrated FIFO is used	N/A			
4	Control evidences are posted in the IAC eroom				
4a	Excel file with variance analysis & comments	Yes			
4b	Check-list	Yes			

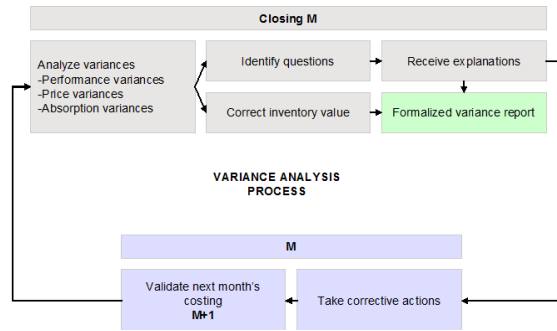
The variance is the difference between the expected standard cost and the actual cost incurred. Variance analysis involves breaking down the total variance to explain how much of it is caused by usage of resources being different from the standard and how much of it is caused by the price of resources being different from the standard.

Each site controller has the responsibility to analyze each month the variance and to explain this variance in order to :

- Understand the reasons
- Initiate corrective actions
- If needed adjust the inventory value and change the semi-standard way of calculation, depending on the origin of the variance.

This process of analysis, whatever the result be a change of costing or not, must be formalized, and archived as a justification of records based on following sheets :

Variance Template / Perf. analysis / Revaluation / CC variance / IAC 01.09



Open the sheet "Variance Template"

STEP 1

Step 1: Open the file.

Choose the authorization scope and the period / fiscal year

SCOPE : SCO

BW File on

[BW - IMEP - WP2 Variance Analysis](#)

STEP 2

Control that the report BW = KE30:

Total column P = D05

Total column Q = E05

Total column R = F05

STEP 3

List the products that generate the main variances

		Total
128581	FENTAMINE MADHT BULK(CN)	101,523 CNY
128201	FENTACARE DHT21 I 75 BULK	109,349 CNY
128428	FENTACARE EAPB BULK(CN)	145,125 CNY
128568	FENTAMINE DMAPA CRUDE BULK(CN)	170,968 CNY
128192	FENTACARE DHT21 E 75 BULK	201,829 CNY
124051	FENTAMINE DMA1270 BULK	204,609 CNY
128620	JAGUAR C 14 S BULK(CN)	224,074 CNY
128541	FENTAMINE DMA1270D BULK(CN)	246,764 CNY
128567	FENTAMINE DMAPA BULK(CN)	354,980 CNY
128278	INT NITRIL HT BULK(CN)	618,017 CNY
TOTAL		2,377,238 CNY

STEP 4

Explain the main variances

a. structure: Production version change / Raw material / Recycling / Others

How to read this variance ?

- Material 53789 TY A 218 V30 BLACK 34NG XXXX was produced with a different production version than the one used for the costing
- In the production version (B332) used for the costing, it is forecasted to produce one batch in 18,239 hours. But this material was produced in 17,90 h on an other production line.

It creates the following variance on process order :

Order	Mat.	Material description	Origin	Actual Qty	Tgt Qty	SCE	Item UMe	FC Var.	DEP Var.	PrdVer	Pr.V.
2084855	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1133 AMO	17,900	0,000	H		0,00	376,83	B332	A413
	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1133 CNP	17,900	0,000	H		3 620,24	0,00	B332	A413
	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1133 MANHO	17,900	0,000	H		2 665,67	0,00	B332	A413
	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1141 AMO	0,000	18,239	H		0,00	385,40-	B332	A413
	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1141 CNP	0,000	18,239	H		3 719,52-	0,00	B332	A413
	53789	TY A 218 V30 BLACK 34NG XXXX	7822-1141 MANHO	0,000	18,239	H		2 805,63-	0,00	B332	A413
2084855				53,790	54,717	H		239,24-	8,57-		

	Actual hours	Standard hourly rate 7822-1133	Actual costs	Std hours	Standard hourly rate 7822-1141	Standard costs	Variances
MANHO	17,90	148,92	2 665,67	18,24	153,93	2 805,63	-139,96
CNP	17,90	202,25	3 620,24	18,24	203,93	3 719,52	-99,28
E05 FC ProcessO Var			6 285,91			6 525,15	-239,24
AMO	17,90	21,05	376,83	18,24	21,13	385,40	-8,57
F05 DEP ProcessO Var			376,83			385,40	-8,57

b. yield: RM consumption is higher or lower than std quantity

How to read this variance ?

- The actual time (96 h) to produce material 64712 PA 66 MOLTEN POLYMER is higher than the standard time (84,261h)
- It creates the following variance on process order :

Order	Mat.	Material description	Origin	Origin Description	Actual Qty	Tgt Qty	Item	FC Var.	DEP Var.	PrdVer	Pr.V.
2080888	64712	PA 66 MOLTEN POLYMER	7822-1304 AMO	ATY 20067822-1304AMO	96,000	84,261	H	0,00	284,50	PC41	PC41
	64712	PA 66 MOLTEN POLYMER	7822-1304 CNP	ATY 20067822-1304CNP	96,000	84,261	H	1 666,32	0,00	PC41	PC41
	64712	PA 66 MOLTEN POLYMER	7822-1304 MANHO	ATY 20067822-1304MANHO	96,000	84,261	H	497,75	0,00	PC41	PC41
2080888					288,000	252,783	H	2 164,07	284,50		

	Actual hours	Standard hourly rate 7822-1304	Actual costs	Std hours	Standard hourly rate 7822-1304	Standard costs	Variances
MANHO	96,00	42,45	4 075,03	84,26	42,45	3 576,73	498,30
CNP	96,00	141,95	13 626,91	84,26	141,95	11 960,60	1 666,32
E05 FC ProcessO Var			17 701,94			15 537,33	2 164,62
AMO	96,00	22,55	2 164,84	84,26	22,55	1 900,12	264,72
F05 DEP ProcessO Var			2 164,84			1 900,12	264,72

c. purchased vs produced: material is purchased instead of produced or vice & versa

How to read this variance ?

- Material 63324 is supposed to be produced but it was purchased
- As it is purchased, the production cost = 100 % CP while in the costing the production cost is splitted into CP / CNP / AMO

Order	Mat.	Material description	Origin	Origin Description	Actual Qty	Tgt Qty	Item	FC Var.	DEP Var.
2084538	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	63324	SB 27 AE 1 F (EX 27/A-00 MS) N	8 000	8 000	KG	2 863,94-	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1050003	CARTON TOP 1121*1121*190	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1050009	CARTON BOTTOM FOR CRATE 1	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1050012	BELT REP FOR CARTON 1085X	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1050019	CARTON SIDE EXT 1101X1101X	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1050023	PE SACK 2000X3300 200µ	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	1060594	WOOD PALLET CP8 1140X1140	0	8,960-	PC	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	62575	SB 27 AE 1 F (ex 27/A-00 MS)	0	8 000-	KG	8 836,34	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E						0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	7822-1008 UELEC	ATY 2006/7822-1008/UELEC	0	0,256-	MWH	0,00	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	7822-1180 AMO	ATY 2006/7822-1180/AMO	0,000	5,336-	H	0,00	59,65
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	7822-1180 CNP	ATY 2006/7822-1180/CNP	0,000	5,336-	H	155,15	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	7822-1180 MANHO	ATY 2006/7822-1180/MANHO	0,000	5,336-	H	0,34	0,00
	63324	SB 27 AE 1 F (EX 27/A-00 MS) NAT (811)E	SETLEMENT	SETLEMENT				0,00	0,00
2084538					0,000	16,008-	H	6 127,89	59,65

d. subcontractor: Material is produced by a subcontractor instead of an internal production

How to read this variance ?

- Same principle as the previous variance
- When a material is produced by a subcontractor instead of an internal production

e. others: to be commented

STEP 5

Fill in those information in « variance template » tab

	YTD	Comments	Action
D00 VC Variable Cost			
Others (D01+D55+D60+D70+D80)			
Std VC + Others			
1.Perf variance (D05)			
a. structure			
b. yield			
c. purchased vs produced			
d. subcontractor			
e. others			
2.Variance / CC (D45)			
a. utilities			
b. subcontractor			
c. others			
3.Revaluation (D50+D52)			
4.Purchase variance (D47)			
VC on MP Sales			

STEP 6

When there are recurring performance variances, they can be listed in the sheet "Perf. analysis"

Performance variance analysis

a1. Structure: Recurring cases of production line change
Please describe for your site
a2. Structure: Recurring cases of switch between Raw material / Recycling
Please describe for your site
b. Yield: Productivity variance
Standard analysis based on ZWPP40A
c. Purchased vs produced: Material purchased instead of produced
Please describe for your site
d. Subcontractor variance
Please describe for your site
e. Others
Please describe for your site

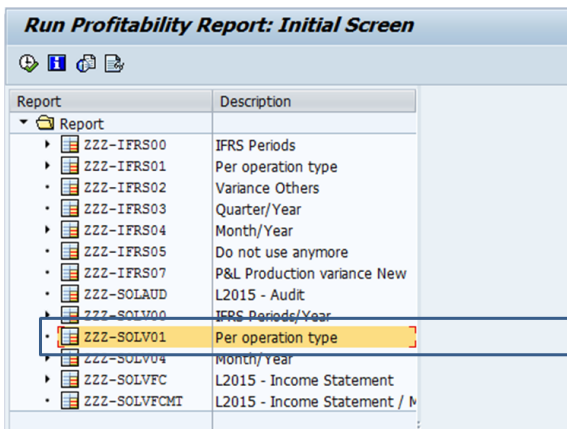
Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Nov 30, 2025	Actor	Type	Activity	Version
Published	TORNPETCH, Ubonrat	State	changed state to Published at 5:33 am	v14
Draft	TORNPETCH, Ubonrat	State	gave <i>Approvers</i> approval at 5:33 am	
Oct 08, 2025				
	WIROONSRI, Phattarapha	Edit	updated the page at 5:17 am	
		State	changed state to Draft at 3:17 am	v14
Mar 31, 2025				
Published	Gomes, Susana	Edit	updated the page at 12:32 pm	
		State	changed state to Published at 10:32 am	v13
Draft	Gomes, Susana	State	gave <i>Approvers</i> approval at 10:32 am	
		State	changed state to Draft at 10:32 am	v13

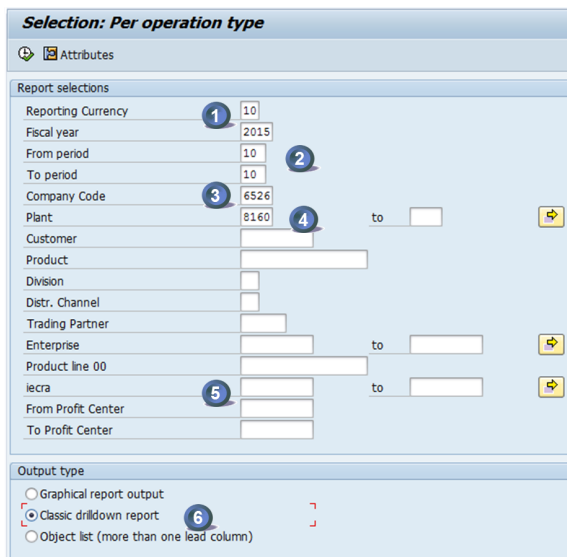
STEP 1

Use the transaction **KE30** and choose the report **ZZZ-SOLV01**



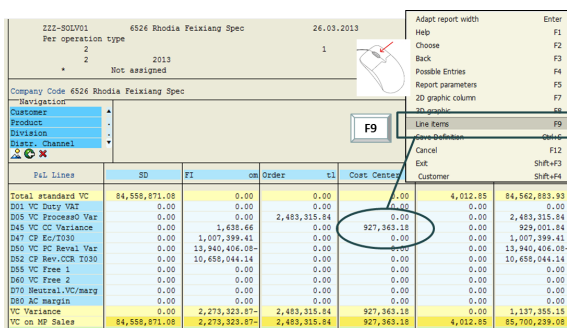
Enter

1. the reporting currency = 10
2. the period
3. the company code
4. the plant code
5. the IECRA (when applicable)
6. select : "Classic drilldown report"



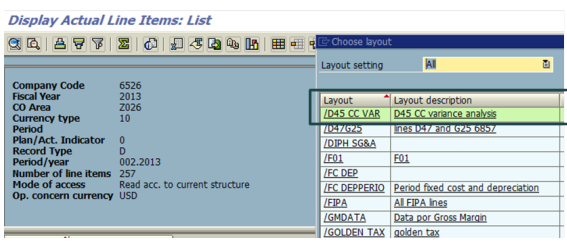
STEP 2

To have the detail of the value field D45 VC CC Variance => click on the amount, right click and select "Line items" or click F9



STEP 3

Use the lay out /D45 CC VAR to have the variance by cost center



Currency	Sender cost center	D45 VC CC Variance
CNY	6526-9201	2,39-
CNY	8160-1050	578 119,71
CNY	8160-1051	282 321,47
CNY	8160-1052	9 204,15-
CNY	8160-1053	127 524,10
CNY	8160-1054	7 515,07-
CNY	8160-1055	441 620,78-
CNY	8160-1056	10 999,99
CNY	8160-7000	28 483,77
CNY	8160-7008	466 330,78
CNY	8160-7040	74 889,90
CNY		1 110 327,33

STEP 4

To have the detail of the cost centers, you can use the transaction **S_ALR_87013611**

Enter :

1. the controlling area
2. the period
3. the list of cost centers you want to analyse

Cost Centers: Actual/Plan/Variance: Selection

Data Source...

Selection values

Controlling Area	2026	1
Fiscal Year	2015	
From Period	10	2
To Period	10	
Plan Version	0	

Selection groups

Cost Center Group				
Or value(s)	8160-1050	to		
Cost Element Group				
Or value(s)		to		

STEP 5

Double click on the amount you want to analyse

Cost Centers: Actual/Plan/Variance Date: 25.11.2015 Page: 2 / 2

Cost Center/Group: 8160-7000 Purchase Costs Var

Person responsible: S0014824

Reporting period: 10 to 10 2015

Cost Elements	Act. Costs	Plan Costs	Var. (Abs.)	Var. (%)
98150890 VC FREIGHT ON RM	28 483,77		28 483,77	
* Debit	28 483,77		28 483,77	
99429900 PA-AS CP	28 483,77-		28 483,77-	
* Credit	28 483,77-		28 483,77-	
** Over/Underabsorption				

STEP 6

Fill you the variance template with your analysis

	YTD	Comments	Action
D00 VC Variable Cost			
Others (D01+D55+D60+D70+D80)			
Std VC + Others			
1.Perf variance (D05)			
a. structure			
b. yield			
c. purchased vs produced			
d. subcontractor			
e. others			
2.Variance / CC (D45)			
a. utilities			
b. subcontractor			
c. others			
3.Revaluation (D50+D52)			
4.Purchase variance (D47)			
VC on MP Sales			

Status	
Owner	SUSANTO-ext, William
Stakeholders	

Purpose

The purpose of this document is to define the conversion approach to create Conversion Specification Document CNV-2009 Material Master – QM View in S/4HANA.

The QM View in the Material Master contains quality-related settings that control how a material is handled in Quality Management processes. These settings include inspection types (e.g., goods receipt, in-process, delivery), quality control keys, certificate requirements, preferred inspection plans or material specifications, and the status of quality management activation for the material. Maintaining the QM View ensures that materials are consistently subjected to the correct inspection processes during procurement, production, and sales.

In SAP S/4HANA, the structure and usage of the Material Master QM View remain consistent with SAP ECC. The QM View is defined by material (MARA-MATNR), plant (MARC-WERKS), and the associated quality-related fields. These include inspection setup (QMAT), inspection types (QMAT-ART), active status, and assignment of task lists or material specifications.

In SAP ECC, aside from the standard fields, additional legacy configurations may exist, such as:

- Materials with inactive or obsolete inspection types still marked in the QM View.
 - Materials assigned to inspection types without corresponding inspection plans or specifications.
 - Redundant or duplicate plant-level QM settings for the same material.
 - Materials with blocked or obsolete quality control keys.
- These cases will need to be validated and cleansed as part of the Master Data Services (MDS) process prior to migration.

This conversion aims to migrate active and relevant Material Master QM View data from existing ECC systems into S/4HANA by applying the required transformation logic using Syniti as the data migration and transformation platform. The converted records will be loaded into the target S/4HANA system using standard SAP mechanisms such as BAPIs (e.g., BAPI_OBJCL_CREATE or BAPI_MATERIAL_SAVEDATA), IDOCs, or direct table loads where applicable, ensuring that all materials in scope have consistent and accurate QM-related setup in the target system.

Conversion Scope

The scope of this document covers the approach for converting active Conversion Specification 2009 Material Master – QM View data from Legacy Source Systems into S/4HANA following the [MDS-2009 Material Master QM View Design Standard](#).

From the current system landscape, Material Master QM View data exists separately in the legacy systems (PF2 and WP2), with potential discrepancies in both systems. Harmonization and validation are required to ensure accurate and consolidated data in S/4HANA. While PF2 and WP2 serve as source systems, extensive mapping and transformation logic will be necessary to produce properly formatted load templates in line with the target design.

The data from legacy system includes: *Final relevancy rule pending MDS*

1. Active Material Master QM Views that are in use within the last three (3) years in inspection lots, quality certificates, or inspection plans.
2. QM Views without Deletion Flag, i.e., not blocked or obsolete.
3. QM Views assigned to plants that are in-scope for S/4HANA migration, based on the To-Be Plant Mapping.
4. Materials with at least one valid inspection type (e.g., 01, 04, 09) configured and active in the QM View.
5. Materials where control key, inspection setup, and certificate requirements are consistent with S/4HANA target design.

The data from legacy system excludes:

1. Inactive QM Views for materials not used in inspection lots or quality processes for more than three (3) years.
2. QM Views marked for deletion or with inspection types blocked in ECC.
3. QM Views belonging to plants that are out of scope or deleted as per To-Be Plant Mapping.
4. Obsolete inspection types or settings that are not supported in S/4HANA.
5. Duplicate or conflicting QM Views for the same material/plant combination, where only one harmonized record should remain.

Relevancy rule

1. Material/Plant with history and active production usage – Materials must be defined at global (MARA) and plant level (MARC) with valid status and assignment to active plants in scope.
2. BOMs linked to active materials – Only BOMs associated with materials that have valid production usage (Usage = 1 “Production”) and are actively used in production within the last three (3) years will be considered.
3. Production Versions referencing BOMs – Production Versions must exist and be valid, linking BOMs with corresponding Routings /Master Recipes at the plant level to ensure continuity of manufacturing execution.
4. Component materials – All components within the BOM must be valid, active materials in the Material Master and not marked for deletion.
5. Plant-specific validation – BOMs will be checked against active plant mappings (per To-Be Plant definition) to ensure only relevant BOMs are migrated.

Material/Plant Active with three years production usage history defines Active BOMs (Usage = 1 “Production”) by Plant validates Production Versions ensures accurate mapping of dependent Routings/Master Recipes.

Plant Merging

Plants will be harmonized based on the To-Be Plant Mapping. As some legacy plants will be merged into one target plant, BOMs will be reassigned accordingly. Plant transformation will be managed through a mapping table maintained in Syniti to ensure consistent alignment with the To-Be Plant structure.

List of source systems and approximate number of records

--	--	--	--	--	--

Source	Scope	Source Approx No. of Records	Target System	Target Approx No. of Records
PF2/WP2	Material Master QM views will be extracted from source systems. An initial extract of the relevant data will be provided in Google Sheet format to assist business in decision making on including any relevant data from Source Systems.	500,000	S4 HANA	400,000 After cleansing

Additional Information

Multi-language Requirement

Not applicable

Document Management

Not applicable

Legal Requirement

Not applicable

Special Requirements

Not applicable

Target Design

Inspection Plan strictly adheres to the Master Data Standard. The complete information of the tables and key fields that hold the Inspection Plan information follows the Master Data Standard document.

The technical design of the target for this conversion approach (pending MDS)

Table	Field	Data Element	Field Description	Data Type	Length	Requirement
MARC	MATNR	MATNR	Material Number	CHAR	18	R
MARC	WERKS	WERKS_D	Plant	CHAR	4	R
MARC	QMATV	QMATV	QM Control Key (Material Active in QM)	CHAR	1	R
QMAT	ART	ART	Inspection Setup Indicator	CHAR	1	R
QMAT	ARTINSP	ARTINSP	Inspection Type	CHAR	4	R
QMAT	AKTIV	AKTIV	Active Indicator for Inspection Type	CHAR	1	R
QMAT	STEURKZ	STEURKZ	Control Key for Inspection Type (Insp. lot creation etc.)	CHAR	2	R
QMAT	PRUEFLOS	PRUEFLOS	Inspection Lot Origin	CHAR	2	C
QMAT	LOSART	LOSART	Lot Size for Inspection	NUMC	6	C
QMAT	VERWMERKM	VERWMERKM	Master Inspection Characteristics Assigned	CHAR	18	C
QMAT	LOEKZ	LOEKZ	Deletion Indicator	CHAR	1	C
MARC	SSQSS	SSQSS	QM Procurement Key	CHAR	2	C
MARC	SPRQKZ	SPRQKZ	Quality Management in Procurement Active	CHAR	1	C
MARC	PRUEFGR	PRUEFGR	QM Control Key for Goods Receipt	CHAR	4	C
MARC	INSMK	INSMK	Stock Type for Quality Inspection	CHAR	1	C

Data Cleansing

All data cleansing activities must be performed in the source systems (e.g., PF2, WP2) wherever possible, following the rules and criteria defined in this document. The objective is to ensure that only valid, active, and relevant master data is migrated to S/4HANA, while obsolete, redundant, or inconsistent records are excluded.

If certain data cleansing activities cannot be executed directly in the source systems due to system limitations, they may be managed externally (e.g., using Syniti Migrate, 3rd Party Vendor tools, or DCT processes). In such cases, proper documentation of the cleansing activity must be maintained and appended to this deliverable to support review, validation, and sign-off by stakeholders.

ID	Criticality	Error Message/Report Description	Rule	Output	Source System
2009-001	C1	Invalid or inactive Inspection Type maintained for the material.	Material as per relevancy criteria with active Inspection Type (QMAT-QMART) and valid activation flag (QMAT-AKTIV = 'X') within the plant scope.	Inspection Type	PF2/WP2
2009-002	C1	Inspection Type not linked with valid Plant/Material combination.	Material Master (MARA/MARC) must have corresponding entry in QMAT with valid Plant and active flag.	Material-Plant	PF2/WP2
2009-003	C1	Inspection Type maintained without valid Quality Info Record.	Inspection Type (QMAT) must have a corresponding valid entry in QINF with same Material and Plant combination.	Quality Info Record	PF2/WP2
2009-004	C2	Quality Level Indicator inconsistent.	Quality Level Indicator (QMAT-QBEST) must follow valid range defined in configuration table TQ07.	Quality Level	PF2/WP2
2009-005	C1	Inspection Setup maintained with invalid Usage Key.	Usage Key (QMAT-VERWM) must exist in configuration table (TQ09).	Usage Key	PF2/WP2
2009-006	C1	Invalid or missing Control Key in QM View.	Control Key (QMAT-STEUF) must be maintained and valid per configuration table (TQ08).	Control Key	PF2/WP2
2009-007	C2	Inconsistent Active Flag (Material without active QM view).	Only materials with QMAT-AKTIV = 'X' are valid for migration. Inactive records to be excluded.	Active Flag	PF2/WP2
2009-008	C1	Missing linkage between Inspection Type and Inspection Lot Origin.	Each Inspection Type must have a valid Inspection Lot Origin (TQ85-QPRUEFART).	Inspection Lot Origin	PF2/WP2
2009-009	C1	Missing or invalid Quality Control Key assignment.	Control Key (QMAT-STEUF) must match configuration in TQ09 with valid status.	Control Key	PF2/WP2
2009-010	C1	Missing or invalid Deletion Indicator setup.	Material marked for deletion (MARA-LOEKZ = 'X') or with inactive QM view (QMAT-AKTIV 'X') should be excluded from migration scope.	Deletion Indicator	PF2/WP2

Conversion Process

The high-level process is represented by the diagram below:

The ETL (Extract, Transform, Load) process is a structured approach to data migration and management, ensuring high-quality data is seamlessly transferred across systems. Here's a breakdown of its key components:

1. Extraction

The process begins with extracting metadata and raw data from source systems, such as Syensqo ECC system (i.e. WP2/PF2) periodically. The extracted data is then staged for transformation.

2. Transformation

Once extracted, the data undergoes cleansing, consolidation, and governance. This step ensures data integrity, consistency, and compliance with business rules. The transformation process includes:

- Data validation to remove inconsistencies.
- Standardization to align formats across datasets.
- Business rule application to refine data for operational use.

3. Loading

The transformed data is then loaded into the target S/4HANA system.

? Unknown Attachment

For sites that are not on SAP-PF2 and WP2 systems, collection will be done manually in the data collection template.

The high-level process for DCT is represented by the diagram below:

? Unknown Attachment

Data Privacy and Sensitivity

Not applicable

Extraction

Extract data from a source into Syniti Migrate. There are 2 possibilities:

1. The data exists. Syniti Migrate connects to the source and loads the data into Syniti Migrate. There are 3 methods:
 - a. Perform full data extraction from relevant tables in the source system(s).
 - b. Perform extraction through the application layer.
 - c. Only if Syniti Migrate; cannot connect to the source, data is loaded to the repository from the provided source system extract/report.
2. The data does not exist (or cannot be converted from its current state). The data is manually collected by the business directly in Syniti Migrate. This is to be conducted using DCT (Data Collection Template) in Syniti Migrate.

The agreed relevancy criteria is applied to the extracted records to identify the records that are applicable for the Target Loads

Extraction Run Sheet

Req #	Requirement Description	Team Responsible
Extraction Scope Definition	<ul style="list-style-type: none">- Identify the source systems and databases involved.- Define the data objects (tables, fields, records) to be extracted.- Establish business rules for data selection.	Syniti /P2F Data team
Extraction Methodology	<ul style="list-style-type: none">- Specify the extraction approach (full, incremental, or delta extraction).- Determine the tools and technologies used.- Define data filtering criteria to exclude irrelevant records.	Syniti
Extraction Execution Plan	<ul style="list-style-type: none">- Establish execution timelines and batch processing schedules.- Assign responsibilities for extraction monitoring.- Document dependencies on other migration tasks.	Syniti
Data Quality and Validation	<ul style="list-style-type: none">- Define error handling mechanisms for extraction failures.	Syniti

Selection Screen

Not applicable

Data Collection Template (DCT)

The Data Collection Template (DCT) will not be applicable in this case. If there is a need to create a new Master Data (MD) for Material BOM object, the business must perform this activity in the source system. The newly created object will then be captured and migrated as part of the standard migration process.

Extraction Dependencies

Before data extraction can commence, several **prerequisite steps and conditions** must be met to ensure a smooth and accurate extraction process. These dependencies involve confirming system readiness, validating data structures, and ensuring that appropriate access rights and credentials are in place.

Each step must be clearly defined, assigned to responsible teams, and completed prior to extraction activities. Proper coordination across stakeholders is required to mitigate risks and avoid delays in the migration timeline.

Item #	Step Description	Team Responsible
1	Source System Availability <ul style="list-style-type: none">• Ensure that the source database or application is accessible.• Confirm that necessary credentials and permissions are granted	Syensqo IT

2	Data Structure <ul style="list-style-type: none"> Identify relationships between tables, views, and stored procedures. 	Syniti
3	Referential Integrity <ul style="list-style-type: none"> Ensure dependent records are extracted together. 	Syniti
4	Extraction Methodology <ul style="list-style-type: none"> Define whether extraction is full, incremental, or delta-based. Establish batch processing schedules for large datasets. 	Syniti
5	Performance and Scalability Considerations <ul style="list-style-type: none"> Optimize extraction queries to prevent system overload. Ensure network bandwidth supports data transfer volumes. 	Syniti
6	Security and Compliance <ul style="list-style-type: none"> Adhere to regulatory standards for sensitive information if applicable 	Syniti
7	Data cleansing of legacy Resource If standardization within the DCT begins using relevant data from PF2 and WP2 before the cleansing is finalized, it is understood that the business will take due diligence to ensure any subsequent delta cleansing is verified and aligned within the DCT.	Business

Transformation

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow to make the data Target ready:

- Perform value mapping and data transformation rules.
 - Legacy values are mapped to the to-be values (this could include a default value)
 - Values are transformed according to the rules defined in
- Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

Transformation Run Sheet

Item #	Step Description	Team Responsible
1	Obtain DCT Sign-off from Business	SyWay Data Team
2	<Add steps from Syniti Migrate here>	SyWay Data Team
3	Review and Validate Error and Preload Reports	SyWay Data Team
4	Generate Load Files	SyWay Data Team

Transformation Rules

The Target fields are mapped to the applicable Legacy field that will be its source, this is a 3-way activity involving the Business, Functional team and Data team. This identifies the transformation activity required to allow to make the data Target ready:

- Perform value mapping and data transformation rules.
 - Legacy values are mapped to the to-be values (this could include a default value)
 - Values are transformed according to the rules defined in
- Prepare target-ready data in the structure and format that is required for loading via prescribed Load Tool. This step also produces the load data ready for business to perform Pre-load Data Validation

Rule #	Source system	Source Table	Source Field	Source Description	Target System	Target Table	Target Field	Target Description	Transformation Logic
1	PF2/WP2	QMAT	MATNR	Material	S/4HANA	QMAT	MATNR	Material	Legacy Material Number mapped to new S /4HANA Material Number per Material

									Master mapping file
2	PF2/WP2	QMAT	WERKS	Plant	S/4HANA	QMAT	WERKS	Plant	Map legacy Plant to new S/4HANA Plant per To-Be Plant Mapping table
3	PF2/WP2	QMAT	QPRUEFA RT	Inspection Type	S/4HANA	QMAT	QPRUEFA RT	Inspection Type	Transfer directly; must exist and be active in configuration table TQ07A
4	PF2/WP2	QMAT	AKTIV	Active Indicator	S/4HANA	QMAT	AKTIV	Active Indicator	Retain value if 'X'; otherwise exclude from migration (inactive QM View)
5	PF2/WP2	QMAT	STEUF	Control Key	S/4HANA	QMAT	STEUF	Control Key	Map via configuration table TQ08 to ensure valid Control Key value
6	PF2/WP2	QMAT	VERWM	Usage Key	S/4HANA	QMAT	VERWM	Usage Key	Map legacy usage key to harmonized usage per configuration table TQ09
7	PF2/WP2	QMAT	PRUEFLOS	Inspection Lot Origin	S/4HANA	QMAT	PRUEFLOS	Inspection Lot Origin	Ensure linkage to valid entry in TQ85; default based on Inspection Type if blank
8	PF2/WP2	QMAT	QBEST	Quality Level Indicator	S/4HANA	QMAT	QBEST	Quality Level Indicator	Validate against TQ07 value range; incorrect values default to blank
9	PF2/WP2	QMAT	LOEKZ	Deletion Indicator	S/4HANA	QMAT	LOEKZ	Deletion Flag	Exclude records where Deletion Indicator = 'X' (inactive or obsolete)
10	PF2/WP2	QMAT	ERSDA	Created On	S/4HANA	QMAT	ERSDA	Created On Date	System-generated field during load
11	PF2/WP2	QMAT	ERNAM	Created By	S/4HANA	QMAT	ERNAM	Created By	System-generated field during load
12	PF2/WP2	QMAT	AEDAT	Changed On	S/4HANA	QMAT	AEDAT	Changed On	System-generated field during load
13	PF2/WP2	QMAT	AENAM	Changed By	S/4HANA	QMAT	AENAM	Changed By	System-generated field during load
14	PF2/WP2	QINF	QMATNR	Quality Info Record Material	S/4HANA	QINF	MATNR	Quality Info Record Material	Include only if corresponding Inspection Type is active in QMAT
15	PF2/WP2	QINF	QWERKS	Quality Info Record Plant	S/4HANA	QINF	WERKS	Quality Info Record Plant	Map per To-Be Plant mapping table

Transformation Mapping

Mapping Table Name	Mapping Table Description
Material	Mapping of legacy Material Number to new Material Number in S/4HANA target system. Ensures all inspection-related records are aligned with the migrated Material Master.
Plant	Mapping of legacy Plant codes to new Plant codes in the S/4HANA target system, based on To-Be Plant Mapping definition.
Inspection Type	Mapping of legacy Inspection Types to harmonized Inspection Types in S/4HANA, ensuring alignment with target configuration (TQ07A).
Usage Key	Mapping of legacy Usage Key values to standardized Usage Keys as per S/4HANA configuration (TQ09).
Control Key	Mapping of legacy Control Key values to target system Control Keys (TQ08) for consistent inspection processing logic.
Inspection Lot Origin	Mapping of legacy Inspection Lot Origin values to valid entries in target configuration (TQ85).
UoM (Unit of Measure)	Mapping of legacy Units of Measure to ISO-compliant Units of Measure in S/4HANA (T006).
Authorization Group	Mapping of legacy Authorization Group values to new Authorization Groups maintained in S/4HANA (TBRG).
Quality Level Indicator	Mapping of legacy Quality Level Indicator values to valid target domain values in S/4HANA (TQ07).

Transformation Dependencies

List the steps that need to occur before transformation can commence

Item #	Step Description	Team Responsible
1	Ensure tables completeness	Syniti
2	Ensure all Transformation mappings are up to date.	Syniti

Pre-Load Validation

Project Team

Completeness

Task	Action

Accuracy

Task	Action

Business

Completeness

Task	Action

Accuracy

Task	Action

Load

The load process includes:

1. Execute the automated data load into target system using load tool or product the load file if the load must be done manually
2. Once the data is loaded to the target system, it will be extracted and prepared for Post Load Data Validation

Load Run Sheet

Item #	Step Description	Team Responsible

Load Phase and Dependencies

Configuration

Item #	Configuration Item

Conversion Objects

Object #	Preceding Object Conversion Approach
	list the exact title of the conversion object of only the immediate predecessor – this will then confirm the DDD (Data Dependency Diagram)

Error Handling

Error Type	Error Description	Action Taken

Post-Load Validation

Project Team

Completeness

Task	Action

Accuracy

Task	Action

Business

Completeness

Task	Action

Accuracy

Task	Action

Key Assumptions

- Master Data Standard is up to date as on the date of documenting this conversion approach and data load.
- is in scope based on data design and any exception requested by business.

See also

Change log

Version	Published	Changed By	Comment
CURRENT (v. 12)	Mar 18, 2016 16:55	ROLLIER, Charlotte	
v. 11	Feb 09, 2016 14:12	Alexandra Lepercq	
v. 10	Jan 18, 2016 23:52	Alexandra Lepercq	
v. 9	Jan 18, 2016 23:46	Alexandra Lepercq	
v. 8	Jan 15, 2016 11:01	Alexandra Lepercq	
v. 7	Dec 23, 2015 19:06	Alexandra Lepercq	
v. 6	Dec 23, 2015 18:59	Alexandra Lepercq	
v. 5	Nov 26, 2015 13:03	ROLLIER, Charlotte	
v. 4	Nov 26, 2015 13:01	ROLLIER, Charlotte	
v. 3	Nov 26, 2015 13:00	ROLLIER, Charlotte	

[Go to Page History](#)

Workflow history

Title	Last Updated By	Updated	Status
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There are no pages at the moment.

Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

May 18, 2016	Actor	Type	Activity	Version
Published	Sylvain Michel Alexandre Pingont	State	changed state to Published at 3:33 am (Space Initialization)	v12
Draft	Sylvain Michel Alexandre Pingont	State	gave <i>To be approved</i> approval at 3:33 am	
		State	changed state to Draft at 3:33 am	v12
From Nov 26, 2015 to Mar 18, 2016				
	Alexandra Lepercq and ROLLIER, Charlotte	Edit	multiple updates from Alexandra Lepercq and ROLLI	
	ROLLIER, Charlotte	Edit	created the page at 12:39 pm	

Each month, the inventory is revaluated with the new standard cost.

$$\text{Revaluation} = [\text{Standard cost (M)} - \text{Standard cost (M-1)}] \times \text{Quantity 01/01/M (00h00)}$$

The variance is due to a more or less efficient use of the time available to carry out the actual production. It compares the actual time taken to carry out an activity with the standard time allowed and values the difference at the standard.

The analysis is performed with the report ZWPP40A

$$\text{Each month, the inventory is revaluated with the new standard cost. Revaluation} = [\text{Standard cost (M)} - \text{Standard cost (M-1)}] \times \text{Quantity 01/01/M (00h00)}$$

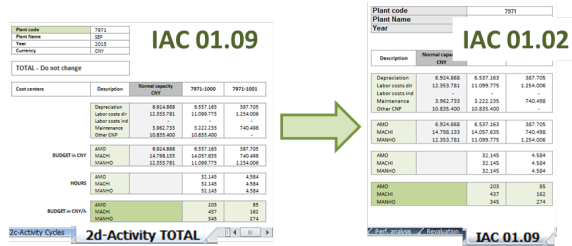
There is a revaluation of fixed costs when:

- there is a modification of the production process
- in January with the new standard hourly rate

STEP 1

Once a year, when the control IAC 01.09 is completed and uploaded in WP2.

- Copy the result of the sheet "2d-Activity TOTAL" and paste the result in the tab "IAC 01.09"



STEP 2

Update the sheet "CC variance" and enter:

- the list of production cost centers
- the column "normal capacity (year)"
- the column "Budget (month)" - usually it is equal to the column "Normal capacity (month)"
- the column "standard capacity (h) (year)"

		Normal capacity CNY		7971-1000	7971-1001
BUDGET in CNY		AMO	6,924,868	6,537,163	387,705
		MACHI	14,796,133	14,057,635	740,498
		MANHO	12,553,781	11,099,775	1,254,006
HOURS		AMO		32,145	4,584
		MACHI		32,145	4,584
		MANHO		32,145	4,584

		EI FC Period	Normal capacity (year)	Normal capacity (month)	Budget (month)	Actual hours	Standard capacity (h) (year)	Standard capacity (h) (month)
CNP	7971-1000	Compounding	16,067,625	1,374,178	1,374,178	0	32,145	2,679
	7971-1001	Pack-aging	740,498	61,708	61,708	0	4,584	382
	TOTAL MACHI		14,796,133	1,233,178	1,233,178	0	32,145	3,061
	7971-1000	Compounding		11,099,775	924,981	924,981	0	32,145
7971-1001	Pack-aging		1,254,006	104,500	104,500	0	4,584	382
TOTAL MANHO			12,353,781	1,029,482	1,029,482	0	32,145	3,061
TOTAL CNP			27,861,914	2,262,659	2,262,659	0	32,145	3,061

		D90 DE period	Normal capacity (year)	Normal capacity (month)	Budget (month)	Actual hours	Standard capacity (h) (year)	Standard capacity (h) (month)
AMO	7971-1000	Compounding	6,537,163	544,764	544,764	0	32,145	2,679
	7971-1001	Pack-aging	387,705	32,309	32,309	0	4,584	382
	TOTAL AMO		6,924,868	577,072	577,072	0	32,145	3,061
TOTAL AMO			6,924,868	577,072	577,072	0	32,145	3,061

STEP 3

Each month, you have to update the actual costs & hours.

The price variance & the absorption variance will be automatically calculated

Cost centers	E01 FC Period	Normal capacity (unit)	Normal capacity (month)	Budget (month)	Actual hours	Standard capacity (h) (unit)	Standard capacity (h) (month)	a price variance	b absorption variance	E01 + E00 Total CC variance	E00 FC absorption
PWR-Tool Prod.CC 1	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
PWR-Tool Prod.CC 2											
PWR-Tool Prod.CC 3											
PWR-Tool Prod.CC 4											
PWR-Tool Prod.CC 5											
PWR-Tool Prod.CC 6											
PWR-Tool Prod.CC 7											
TOTAL MANH											

CO-PA	IAC 01.09	=	Budget	Actual hours	IAC 01.09	=	(6) / 12	=	(1) - (4)	=	- [(5) - (7)] x (3) / (7) + [(4) - (3)]	=	CO-PA
-------	-----------	---	--------	--------------	-----------	---	----------	---	-----------	---	---	---	-------

STEP 4

For the monthly update use the transaction S_ALR_87013611

Enter

1. the controlling area
2. the period
3. the group of production cost centers

Cost Centers: Actual/Plan/Variance: Selection

Data Source...

Selection values

Controlling Area: 2026 **1**

Fiscal Year: 2015

From Period: 1 **2**

To Period: 1

Plan Version: 0

Selection groups

Cost Center Group: 7971-1 **3**

Or value(s): to

Cost Element Group: to

Or value(s): to

STEP 5

1. Production cost centers
2. Actual fixed costs
3. Plan costs from IAC 01.09 (local currency)
4. Actual hour
5. Normal capacity from IAC 01.09 (h)

Variation: Cost Center

7971-1 Solvay Shanghai - Direct Production

7971-1000 Compounding **1**

7971-1001 Packing

Cost Center/Group: 7971-1000 Compounding

Person responsible: 50001634

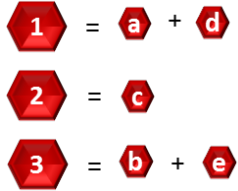
Reporting period: 1 to 1 2015 **2** **3**

Cost Elements	Act. Costs	Plan Costs
99429910 PA-AS CNP	193 294,41	
99429920 PA-AS AMO	73 400,29	
99430020 Direct Labour	801 937,23	924 950,41
99430120 Dir Fxd Ohd/H (CNP)	1 015 636,63	1 171 468,27
99438000 Depreciation	472 298,16	544 763,99
* Credit	2 556 566,72	2 641 212,67
** Over/Underabsorption		1,74

Activity Types	Act. Acty	Plan Acty
AMO Direct Depreciation	2 322,42 H	2 678,75 H
MACHI DIR FIX O/H (CNP) /h	2 322,42 H	2 678,75 H
MANHO Direct Labour	2 322,42 H	2 678,75 H

STEP 6

Report the actual costs of each cost center per activity



Cost Center/Group: 7971-1000

Person responsible: 50001634

Reporting period: 1

Cost Elements	Act. Costs
99429910 PA-AS CNP	a 193 294,41
99429920 PA-AS AMO	b 73 400,29
99430020 Direct Labour	c 801 937,23
99430120 Dir Fxd Ohd/H (CNP)	d 1 015 636,63
99438000 Depreciation	e 472 298,16
* Credit	2 556 566,72
** Over/Underabsorption	

Code	Description	E01 FC Period
7971-1000	Compounding	1 1208.931
7971-1001	Packaging	
TOTAL MACHI		1208.931
7971-1000	Compounding	2 801.937
7971-1001	Packaging	
TOTAL MANHO		801.937
TOTAL CNP		2.010.868

Code	Description	D90 DE period
7971-1000	Compounding	3 545.698
7971-1001	Packaging	
TOTAL AMO		545.698
TOTAL AMO		545.698

Report the actual hours of each cost center per activity

Cost Center/Group: 7971-1000

Person responsible: 50001634

Reporting period: 1

Activity Types	Act. Acty
AMO Direct Depreciation	a 2 322,42 H
MACHI DIR FIX O/H (CNP) /h	b 2 322,42 H
MANHO Direct Labour	c 2 322,42 H

Code	Description	Actual hours
7971-1000	Compounding	b 2.322
7971-1001	Packaging	
TOTAL MACHI		2.322
7971-1000	Compounding	c 2.322
7971-1001	Packaging	
TOTAL MANHO		2.322
TOTAL CNP		

Code	Description	Actual hours
7971-1000	Compounding	a 2.322
7971-1001	Packaging	0
TOTAL AMO		2.322
TOTAL AMO		2.322

STEP 7

Once the file is completed, the price & absorption variance can be reported in the variance analysis template

Code	Description	a. price variance	b. absorption variance	E01 + E90 Total CC variance
7971-1000	Compounding	37,461	155,834	193,295
7971-1001	Packaging	-146,790	2,940	-143,850
TOTAL	MACRI	-109,329	158,774	49,445
7971-1000	Compounding	-129,244	-129,244	0
7971-1001	Packaging	4,952	4,952	0
TOTAL	MANHO	-124,292	124,292	0
TOTAL	CNP	-233,731	283,066	49,445

Code	Description	a. price variance	b. absorption variance	D90 + F90 Total CC variance
7971-1000	Compounding	928	72,467	73,395
7971-1001	Packaging	3,337	1,544	4,881
TOTAL	AMO	4,272	74,011	78,283
TOTAL	AMO	4,272	74,011	78,283

January	
E00 FC Fixed Costs	2,025,287
4.CC variance (E01-E90)	49,446
a. price variance	-237,373
b. absorption variance	286,819
FC on production	2,074,733
F00 DEP Depreciation	581,344
4.CC variance (D90-F90)	78,282
a. price variance	4,272
b. absorption variance	74,010
DEP on production	659,627

Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Nov 30, 2025	Actor	Type	Activity	Version
Published	TORNPETCH, Ubonrat	State	changed state to Published at 5:34 am	v7
Draft	TORNPETCH, Ubonrat	State	gave <i>Approvers</i> approval at 5:34 am	
Oct 08, 2025				
	WIROONSRI, Phattarapha	Edit	updated the page at 5:18 am	
		State	changed state to Draft at 3:18 am	v7
May 18, 2016				
Published	Sylvain Michel Alexandre Pingont	State	changed state to Published at 3:33 am (Space Initialization)	v6
Draft	Sylvain Michel Alexandre Pingont	State	gave <i>To be approved</i> approval at 3:33 am	
		State	changed state to Draft at 3:33 am	v6

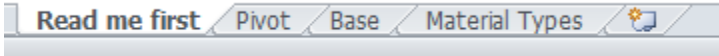
Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Nov 30, 2025	Actor	Type	Activity	Version
Published	TORNPETCH, Ubonrat	State	changed state to Published at 5:33 am	v14
Draft	TORNPETCH, Ubonrat	State	gave <i>Approvers</i> approval at 5:33 am	
Oct 08, 2025				
	WIROONSRI, Phattarapha	Edit	updated the page at 5:19 am	
		State	changed state to Draft at 3:19 am	v14
May 18, 2016				
Published	Sylvain Michel Alexandre Pingont	State	changed state to Published at 3:33 am (Space Initialization)	v13
Draft	Sylvain Michel Alexandre Pingont	State	gave <i>To be approved</i> approval at 3:33 am	

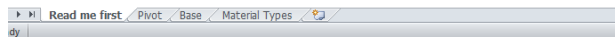
Download the file [IAC 01.02 template PF2.xlsx](#)

There are 4 sheets in the file :



Overview of the 1st sheet: Read me first

A	B	C	D	E	F	G	H	I	J
IAC.01.02 - Monthly variance analysis									
This template concerns the IAC 03.07. The objective is to justify production costs variances and									
1- Pivot									
- Update the pivot table after updating the tab named "base"									
2- Base									
- Copy paste in this tab the data you have extracted from SAP (transaction ZZM_MAT_VAL_COMP)									
3- Material Types									
- In this tab, you will find a recall of material types being extracted									



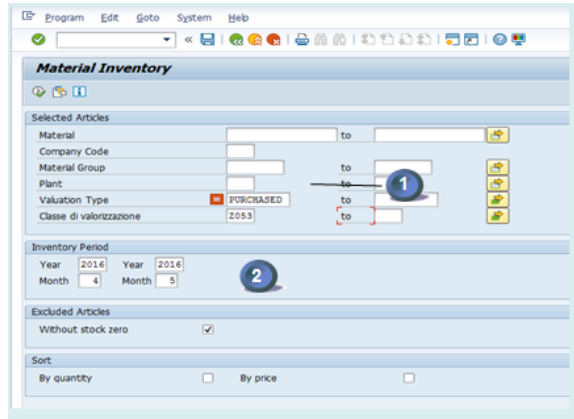
Overview of the 2nd sheet: Base

	A	B	C	D	E	F
	Plant	Material	Description	Base Unit of Measure	Material Group	Description
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						

Overview of the 3rd sheet: Pivot

STEP 2

1. Enter a plant or a list of plants
2. Enter the periods (N-1 and N)

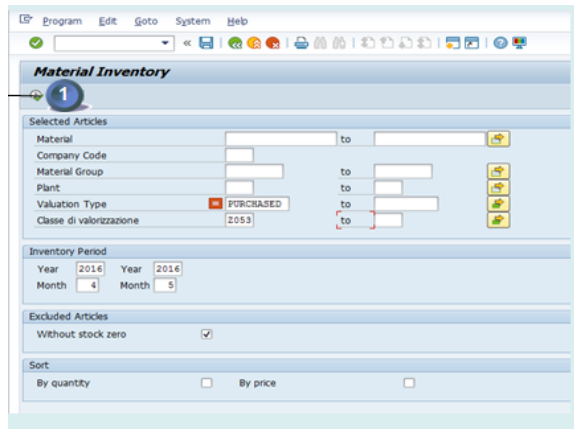


STEP 3

Execute



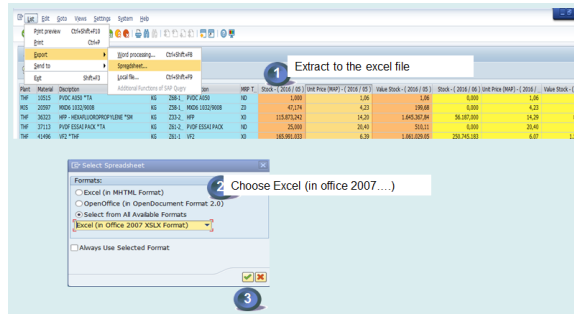
i It may result in a long run time.



STEP 4

Download the file to excel

1. Extract the file through "export -> Spreadsheet"
2. Choose Excel (in office 2007...)
3. Execute

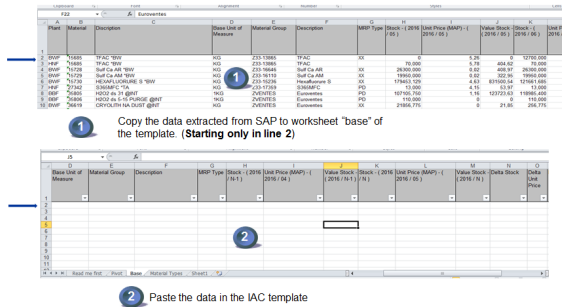


STEP 5

Update the template with the data retrieved in

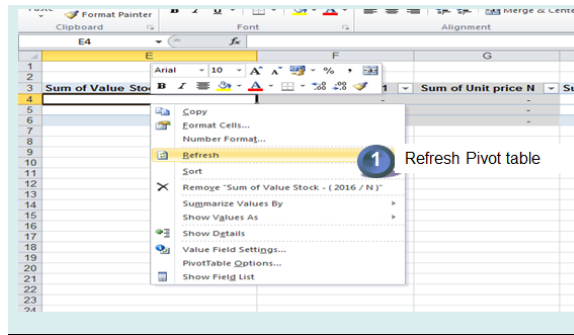
STEP 4

1. Open excel file created in **STEP 4** and copy all data starting "line 2"
2. Past the data in the template of IAC 01.02 PF2



STEP 6

The Pivot table in the template is refreshed



STEP 7

Comment all the materials lines marked as "To be validated"

Year Labels	Sum of Stock	Sum of Value Stock	Sum of Stock (K)	Sum of Value	Sum of Unit price	Sum of Value (K)	Sum of Materiality	Value stock (Materiality)	To be validated	Comments
00494	815148.04	1538725.97	888344.26	1388844.78	1.5754	2.9641	9%	1,297,891.68	OK	
00495	0	0	0	0	0	0	0%	0	OK	
15728	2036	408.97	2036	408.97	0.0166	0.0166	0%	0	OK	
15729	1966	393.24	1966	393.24	0.0162	0.0162	0%	0	OK	
15728	17663.129	35103.64	17663.129	35103.64	4.6338	4.6338	7%	48,194.43	OK	
3619	2184.715	4369.43	2184.715	4369.43	0.0165	0.0165	0%	0	OK	
3622	89176	178352.23	89176	178352.23	1.9833	1.9833	4%	62,729.24	To be validated	
3623	1786	3572.42	1786	3572.42	0.0165	0.0165	0%	61,904.43	To be validated	
3624	19781	39562	19781	39562	0.0165	0.0165	0%	0	OK	
3627	2124.715	4249.43	2124.715	4249.43	0.0165	0.0165	0%	0	OK	
3628	19789.024	39578.047	19789.024	39578.047	0.0278	0.0278	4%	21,764.92	OK	
3631	80000	160000	80000	160000	0.0165	0.0165	0%	0	OK	
3670	20163	40326	20163	40326	0.0278	0.0278	4%	76.43	OK	
3672	40326	80652	40326	80652	1.2062	1.2062	1%	1,614.43	To be validated	
3673	188	376	188	376	1.588	1.588	0%	0	OK	
3674	1848.762	3697.524	1848.762	3697.524	0.0062	0.0062	0%	1,311.22	To be validated	