



# **SAP**

S4HANA – COPA

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# Hierarchies for Profitability (COPA)

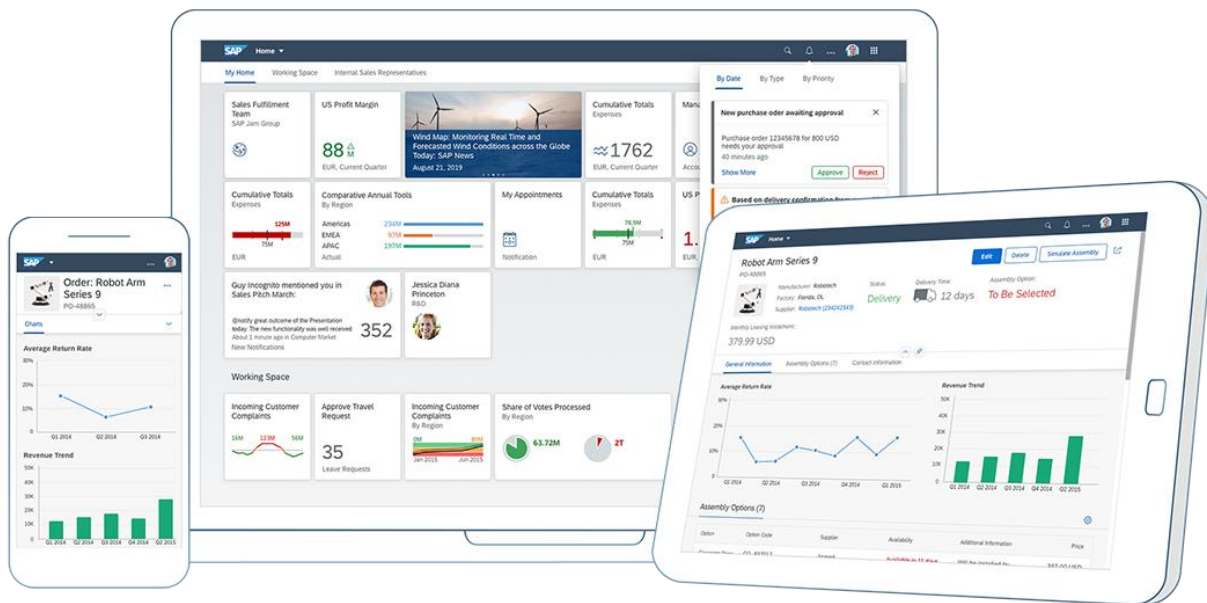
## Fiori Apps

In S/4 HANA, we have a series of Fiori Apps available for reporting that are replacing S\_ALR\_xxx reports that we used to report on Cost Center, Internal Order, Profit Center and others on actuals/plan. The old reports are still working, but they are good for GUI, not for Fiori. **(Unless you call the T-code through Fiori GUI tile)**

So now you have Fiori App reports like "Cost Center - Plan/Actual YTD" or COPA "Market Segments" (replacing KE30) among others that in order for you to use the Cost Center Hierarchy or Profit Center Hierarchy on them, you first need to run a couple of programs to make them available in those Fiori Apps.

These Hierarchies are stored in the back end as SETs like any other SETs that we used to use in Finance for all sort of needs. In order to be able to have them available for these Fiori Apps, you need to convert them into **BW Hierarchies** as the Fiori Apps are based on BW Queries and those don't know anything about SETs, they run with Hierarchies.

This is a 2-step process that you need to run every time you do a modification in any of those Hierarchies, so then the changes become available in the Fiori Apps.



## Step #1: T-code: HRY\_REPRELEV - Set

Report Relevancy for Hierarchies

Set Report Relevancy for Set-Based Hierarchies

Restrict Value Range (1) 7 Entries found

Restrictions

SCla	Description
0101	Cost Center Group
0102	Cost Element Group
0103	Order Group
0106	Profit Center Group
0109	Account Group
0110	WBS Element Group
0112	Functional Area Group

As you can see in the screen capture, you can use the following Hierarchies

- Cost Center Group
- Cost Element Group
- Order (Ex Internal Order) Group
- Profit Center Group
- Account Group
- WBS Element Group
- Functional Area Group

Set Report Relevancy for Set-Based Hierarchies

Set Class	Organizational Unit	Set Name	Report Relevant	Description
0101	A000	0001	<input checked="" type="checkbox"/>	Standard Hierarchy Best Practices
0101	A000	1003907	<input type="checkbox"/>	Material
0101	A000	1010111	<input type="checkbox"/>	
0101	A000	1010300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	1110300	<input checked="" type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	1210300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	1310300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	1510300	<input type="checkbox"/>	CCA Receiver Bld. and Maint. Cost-Manuf
0101	A000	1710177	<input type="checkbox"/>	Sales
0101	A000	1710300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	1710501	<input type="checkbox"/>	
0101	A000	2210300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	2310300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	2410300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	2910300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	6110300	<input type="checkbox"/>	CCA Receiver Bldg & Mntnce Cost-Manuf
0101	A000	A000	<input checked="" type="checkbox"/>	Cost Center Groups-Controlling Area
0101	A000	PTEST	<input type="checkbox"/>	PTest Group

Once you select the Hierarchy (Set Class) that you want to execute and get the list of the available ones. In this case "Organizational Unit" is my SAP Best Practices Controlling Area "A000" and all the Groups that come with it. Depending on the Set Class you selected, it could mean something different. Then you activate the "Report Relevant" flag of the lines/lines that you want and SAVE.

## Step #2: T-code: HRRP\_REP - FIN Runtime Hierarchy Replicator

This step is required to be able to replicate those previous elements as hierarchies so then the Fiori Apps will be able to use them. Without entering into too many technical details, the Fiori Apps use / show/ consume this as a kind of BW Hierarchies, and this process is required to expose them as such.

You will go, select your Hierarchy ID that you want to replicate, enter a valid from date, and select the "Run settings" for background or foreground. It does not take long to execute, so foreground should not be an issue.

Hierarchy ID	Hier Type	Hierarchy Description
0101/A000/0001	0101	Standard Hierarchy Best Practices
0101/A000/1110300	0101	CCA Receiver Bldg & Mntnce Cost-Manuf
0101/A000/A000	0101	Cost Center Groups-Controlling Area
0106/1000/	0106	
0106/1000/	0106	Profit Center by profit Line
0112	0112	Net Operating Income
1010	FSVN	Acc Balance Sheet (#266) & P&L (BIMoG new) local
1020	FSVN	FSV operative CoA by Cost of Sales for DE
1030	FSVN	Acc Balance Sheet (#266) / P&L (BIMoG new) oper
1110	FSVN	SAP Best Practices Financial Stmt Version GB
11C0	FSVN	Cash Flow Statement IFRS for GB
1210	FSVN	SAP Best Practices Financial Stmt Version FR Globa
1220	FSVN	SAP Best Practices Financial Stmt Version FR Local
1310	FSVN	Financial Statemt Vers - CN Oper
1320	FSVN	FS China local
1510	FSVN	Acc Balance Sheet (#266) / P&L (BIMoG new) oper
1520	FSVN	SAP Best Practices Financial Stmt Version JP Local
1720	FSVN	Financial Statement Version US
2230	FSVN	Acc Balance Sheet (#266) / P&L (BIMoG new) oper
2310	FSVN	SAP Best Practices Financial Stmt Version IT Local
23C0	FSVN	Cash Flow Statement IFRS for IT

This means that every time you do a change in any of the Hierarchies (GL, Cost Center, Profit Center, Internal Order, WBS, etc.) you need to run these 2-Step process so you will have the latest changes available for the Fiori Apps. Without this execution, you will not see the new changes.

This process can also be scheduled to run periodically, but this should only be in a context where you have constant changes. (e.g., an app that would use these hierarchies, "Cost Centers Plan/Actual YTD")

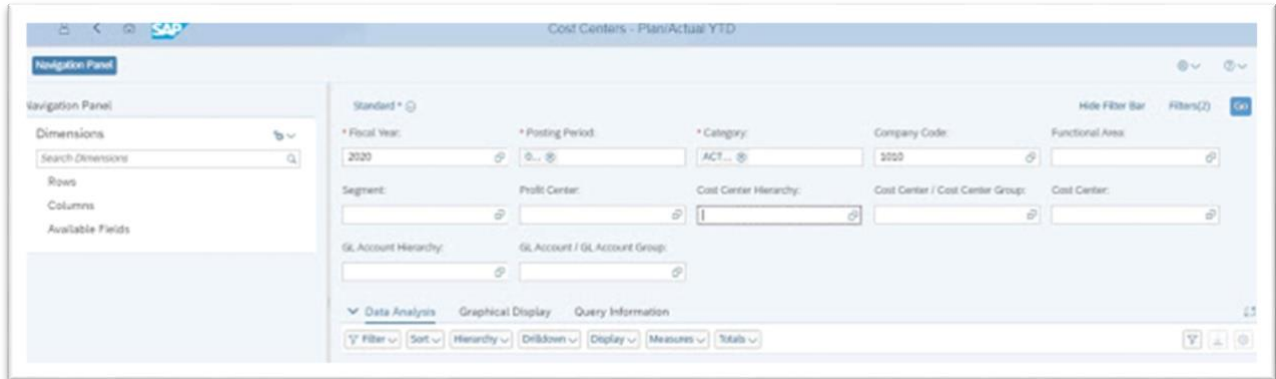
Actual Accrual for Cost Centers

Cost Centers Plan/Actual YTD

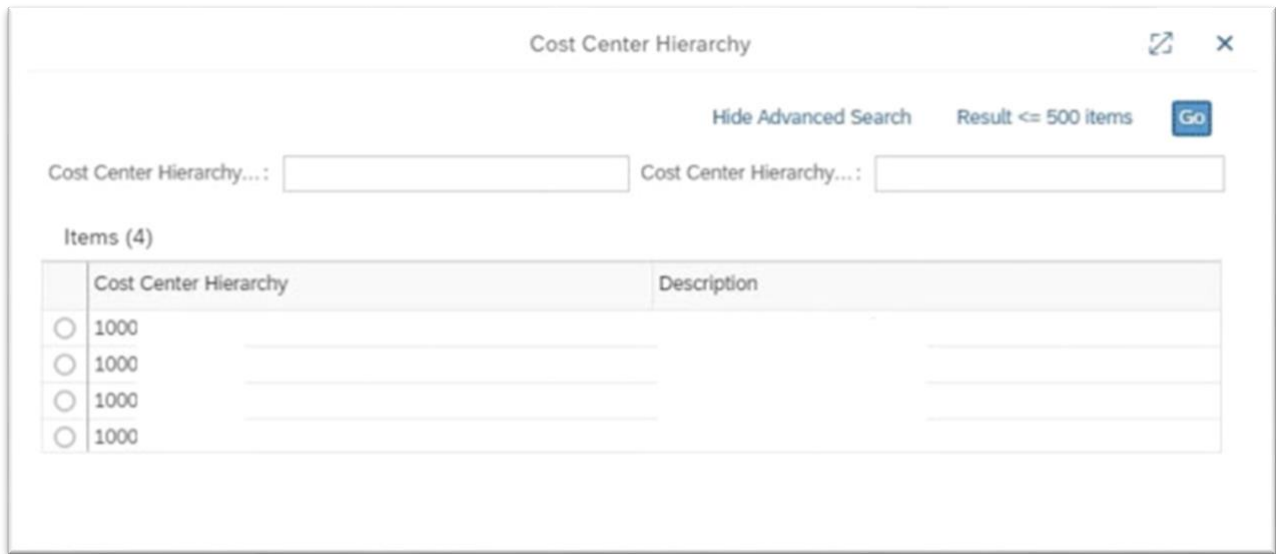
Cost Centers Plan/Actual YTD

Accessible

Click in "Cost Center Hierarchy", click "Go"



And you will get the list of Hierarchies that were replicated. (For confidentiality reasons, I am masking the names)



## Overview – Profitability Analysis

In S/4 HANA, the series of "Market Segment" Fiori Apps have replaced reporting through T-code KE30 where we used to build custom reports based on Report Painter technology. Now this is part of the past and we need to use these new "Market Segment" Fiori Apps in order to do Profitability COPA reporting.

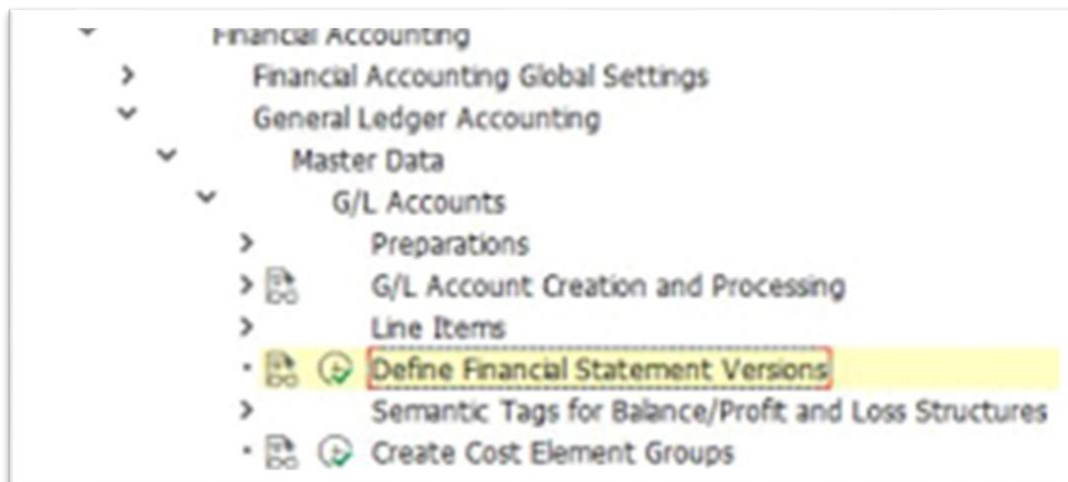
*Note: This is all based on the assumption that you are running "Account Based Profitability" as it is the recommended approach today for S/4 HANA.*

Now, on an Account Based model COPA, you run all your Profitability Analysis based on GL Accounts postings. For that, in order to do Profitability reporting / reports, you have to build a Financial Statement Version (FSV) (Hierarchy Type FSVN, in T-code HRRP\_REP).

Once you built your Profitability FSV, you just need to run T-code HRRP\_REP ([Step #2 from my previous Blog post](#)) to replicate it.

### Financial Statement Versions:

For building your profitability FSV, you need to follow this IMG Path.



Then you will and create your own custom FSV for Profitability Purposes. Ex: YPA2

Change View "Financial Statement Versions": Overview

Financial Statement Items    New Entries

FS Version	Financial Statement Version Name
R5K1	Cash Flow Report (Slovakia)
R5K2	Cash Flow Report (Slovakia) - direct method
R5K3	Cash Flow Report (Slovakia) - indirect method
RTR1	Accounts (Turkey)
RTR2	Cost Accounts (Turkey)
YCOA	Sample Grouping of P&L
YPA2	SAP Best Practices Contribution Margin Report
ZACH	Financial Statement Version for China
ZSK1	

Enter a description, a Maintenance Language and an applicable Chart of Accounts for this FSV. All the same as if you were configuring any other FSV as you did in the past for FI purposes. Then click on "Financial Statement Items" to start building your Hierarchies and GL groupings.

Change View "Financial Statement Versions": Details

Financial Statement Items    New Entries

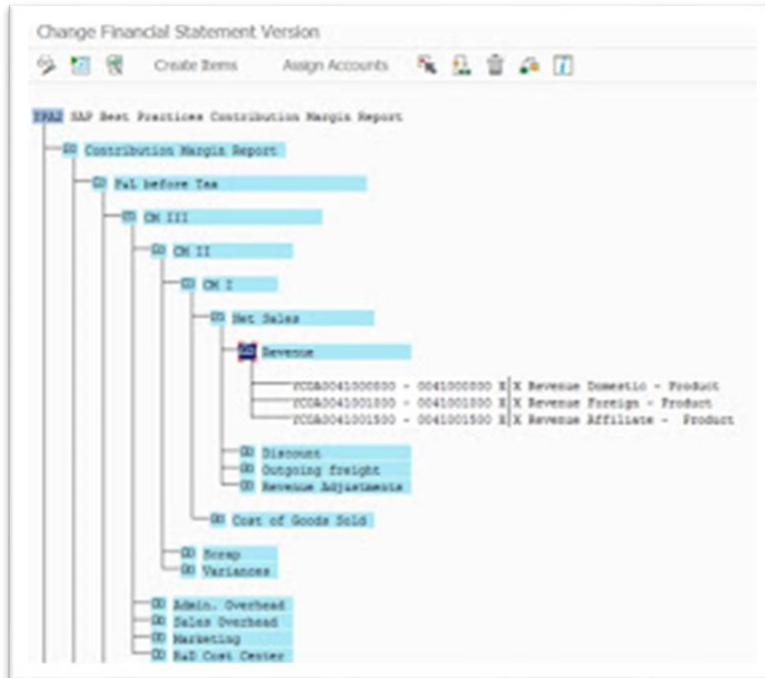
FS Version: YPA2

Name: SAP Best Practices Contribution Margin Report

General specifications

Maint. language	EN
Auto. Item Keys	<input checked="" type="checkbox"/>
Chart of Accounts	YCOA
Group Account Number	<input type="checkbox"/>
Fun.area perm.	<input type="checkbox"/>

This is the Standard SAP Best Practices Contribution Margin report (Profitability), take a copy of it and create your own "Z / Y" one as per your specific business requirements.



Once created and saved, you will replicate it with T-code HRRP\_REP.