


# Master Data

## Fund

**Display Fund: Basic Screen**

Long text... Change history... Change documents Classification 

FM Area	0461
Fund	PSA000006

Names

Name	PSA
Description	PSA

Basic data

Valid from	01.01.1900	Valid To	31.12.9999
Fund type	INT	Internal	
Authorization group			

Additional data

Bdgt profile fund	C00460	
Customer for fund		
Funds application		
<input type="checkbox"/> Balance update	Expiration date	
	Reversal date	

Validity Dates – what date range is valid for posting to fund

Expiration & reversal dates are used in the US Federal Government solution.  
Have to investigate whether or not the fields can be used to store TDD & TOD dates for WFP.

Fund Type – minimum required external & internal – needed to support Grant billing  
In US, fund type is used to categorize funds by accounting requirements (e.g. general funds can't own assets)

*Application of Funds is available but does not need to be used (it is still used in US Federal Government Accounting but not generally used by state or local governments)*

Proposed usage – one fund per donor, internal funds as needed.

Groups can be created to support reporting requirements

## Functional area

### Change View "Functional Areas": Overview

Functional Areas						
Functional Area	Valid From	Valid to	Subdiv. ID	FN Sub 1	FN S	
04.122			A6	04	122	▲
04.126			A6	04	126	▼
04.128			A6	04	128	
07.01.09			A1	07	01	
07.01.10			A1	07	01	
07.01.23			A1	07	01	
10.302			A6	10	302	
10.305			A6	10	305	
100.200.192000			A4	100	200	
12.361			A6	12	361	
12.363			A6	12	363	
201000.123456			A5	201000	1234	
ADM000			A3	ADM000		
ADULTO.MAYOR_			A5	ADULTO	MAYO	
AUGE__			A3	AUGE__		
DES.010.100000			A4	DES	010	
FISCAL			A3	FISCAL		
MINSAL			A3	MINSAL		
000000			A3	000000		

Using the functional area, you can divide your organization according to functional aspects for example development, emergency operation...etc.

Are there ever funds (or funds centers) which cross program categories?

Groups can be created to support reporting requirements

*Proposed Usage – Program Category (e.g. PRRO, SO, HQ) . Primarily used for reporting*

# Funds Center

## Funds Center Display

Period	Long text	Classification	Drilldown	Change documents
FM Area	0461			
Funds Center	CUBA			
Valid from	01.01.1900	Valid to	31.12.9999	
Basic data	Hierarchy	Address	Communication	
<b>Names</b>				
Name	CUBA			
Description	CUBA			
<b>Basic data</b>				
Authorization group				
Default Value Fund	DSC000006	dsc		
Company Code	0461	S.P. Colombia Multi-Anual		
Business Area	300			
<b>Person responsible</b>				
User name	WOLCOTT			
Name				

Fund centers are used to represent organizational units (areas of responsibility, departments, projects) and are arranged in a hierarchy

The fund center master record contains information of the name of the person responsible, as well as a user name in the system. The person defined in the user name as responsible for the funds center is the recipient of automatically generated system messages in certain situations.

Validity Dates : For year-dependent fund centers, you can enter a validity period  
Default Fund :

Business Area – Proposed usage – country, HQ, potentially suboffice, special account, etc.

Hierarchies – support reporting, AVC (availability control). It is possible to create fund centers in several parallel hierarchies. Groups can be created to support reporting requirements

*Proposed usage - Org units-cost centers, Countries, Specific Special Account, Extra Budgetary Resource Pool, GCCC*

# Funded Program

## Display Funded Program

FM Derivation Tool		Where-Used List						
Funded Program	WFP-PROJ1							
FM Area	0461							
Name	WFP-PROJ1							
Description	WFP-PROJ1							
Valid from	01.01.1900							
Valid to	31.12.9999							
Authorization Group								
Created by	WOLCOTT		Changed by					
Entered on	03.11.2006		Chng. date					
Entered at	11:19:07		Chng. time	00:00:00				

Funded programs are programs within Funds management with an operational purpose and defined time frame. Funded programs enable you to record budget, control postings and monitor the financial performance of internal projects.

In a posting transaction the funded program is always derived from another account assignment object normally a CO object as an internal order or a WBS element. It is not possible to enter the Funded Program manually in the coding block.

Groups can be created to support reporting requirements

A special funded program will be created 'not a project' which will be used for PSA organizational postings to cost centres. This funded program will enable the funded program field to always be filled, even when the posting is not to the 'normal' objects requiring funded programs.

*Proposed usage – correspond to WBS elements, Internal Orders*

# Commitment Item

## Display Commitment Item

Commitment item: 51050600      Commitment Item Type:

FM Area: 0461

**Basic Data**

Name: Salary

Description: Salary

Dir. postable       Not Directly Postable

Financial trans.: 30      Post revenue, expenditure, asset, inventory stocks...

Commitment Item Cat.: 3      Expenditures

Authorization group:        Negative Budget

Carryfwd item cat.:        Stat. commitment item

Proposal Funds Ctr.:

**Hierarchy Assignment**

Superior commitment item: PAYROLLRELATED       Standard variant

The Financial transaction represents business transactions and plays the central role of passing data to funds managements.

### Financial Transaction category

Financial tran...	Short text
30	Post revenue, expenditure, asset, inventory stocks...
40	Post goods receipt, goods issue
50	Clearing
60	Post rcvbls and pybls from goods + services
70	Post customer clearing
80	Post bank clearing, bill of exchange
90	Post cash holdings

Directly Postable/Not directly Postable – whether or not actuals may be posted to CI  
 Except for 30, used to control the FM status of transactions as they move from PO to goods receipt, through invoice receipt, through the payment process.

## Commitment item category

Commitment Item C...	Short text
1	Balance
2	Revenues
3	Expenditures
4	Balances
5	Clarification Worklist

For 30, use 2 and 3 to identify expenditure and revenue

For 90, use 1

(I have never received an explanation for usage of 4 or 5)

Hierarchies – support reporting, AVC, alternate hierarchies available

Statistical – can support posting of actuals, not budgeting, postings will not affect availability control

Carryforward item category – may be used at YE to segregate the way items are carried forward – close out to fund balance or to other accounts if desired. I have not seen this feature implemented in state & local government, but it seems that it could be quite useful.

Groups can be created to support reporting requirements

# Grant

## Maintain Grant Master

Relationships

Grant:   
 Grant Type:   
 Sponsor:   
 Copied from:

General Data | Reference | Responsibilities | Posting | Budget | Billing | Dimensions | Supported Objects | Co...

**Basic Data**  
 Grant Type:   
 Company Code:   
 Sponsor:   
 Authorization Group:   
 Award Type:

**Description**  
 Name:   
 Description:

**Currency and Conversion Factors**  
 Grant Currency:   
 Grant Value:   
 Date of Exchange Rate:   
 Exchange Rate:   
 Ratio (from):   
 Ratio (to):

**Grant Validity**  
 Valid from Date:   
 Valid to Date:

**History**  
 Last Modified by:  Created by:   
 Last Modified on:  Created on:   
 Last Modified at:  Created at:   
 Copied from:

General Data | Reference | Responsibilities | Posting | Budget | Billing | Dimensions | Supported Objects | Co...

**Financing Sources**

Fund	IDC Recovery	Cost Sharing	Prog Income	GM Fund Type	Description
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Sponsored Programs**

Sponsored Program	Program Description	Valid from	Default
<input type="text"/>			<input type="checkbox"/>
<input type="text"/>			<input type="checkbox"/>
<input type="text"/>			<input type="checkbox"/>

**Sponsored Classes**

Sponsored Class	Class Type	IDC Relevant	Sponsored Class Description	Valid from	Default
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>

Grant is generally derived within FM or entered on the original document. Grants has its own dimensions: sponsored class and sponsored program which enable restrictions which would be either difficult or impossible to implement using standard FM.

Grant has status just like WBS elements or internal orders – System status – limited number, configurable user status

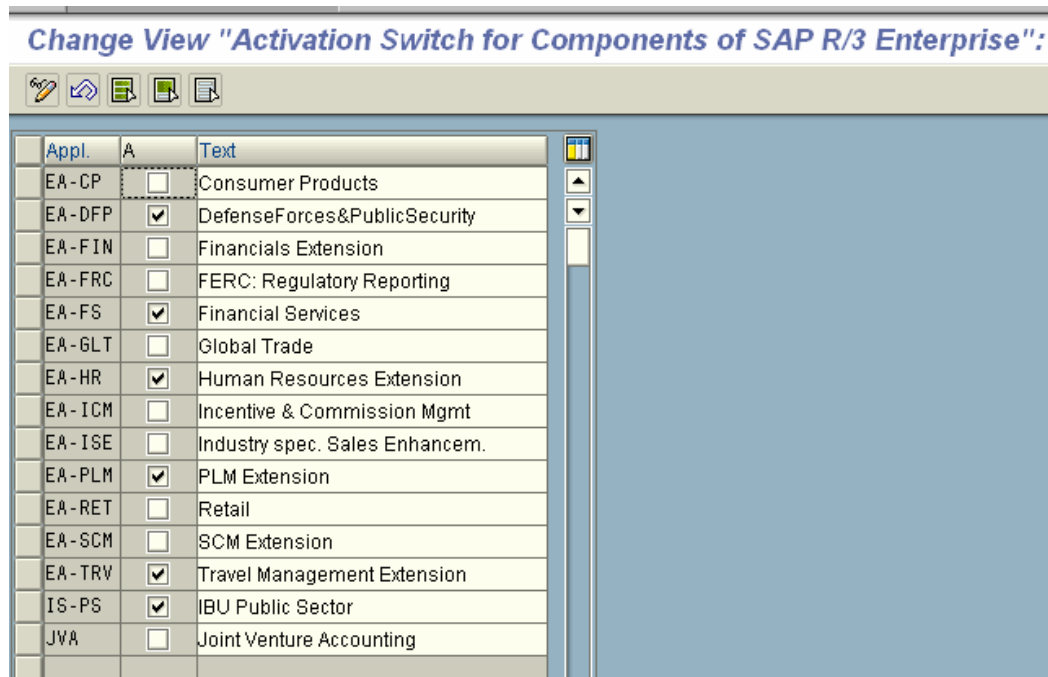
Groups can be created to support reporting requirements

A special grant will be created 'not a grant' which will be used for PSA organizational postings to cost centres and special account postings. This grant will enable the grant field to always be filled, even when the posting is not to the 'normal' objects requiring a grant.



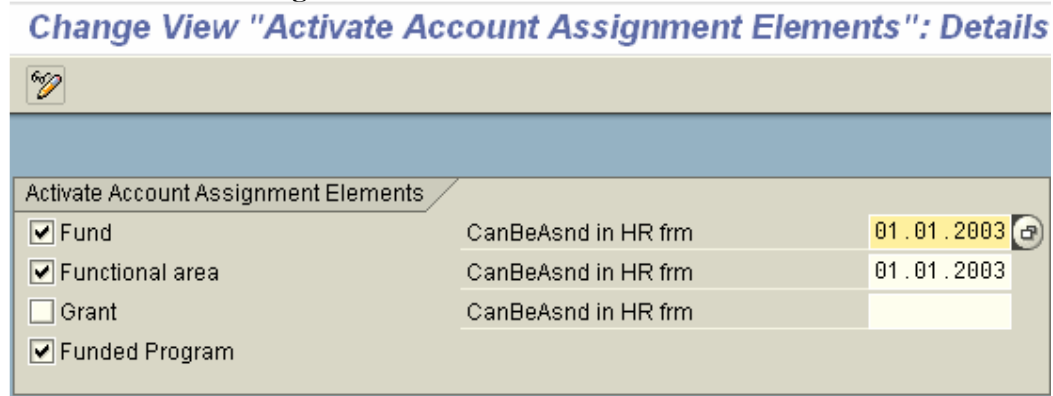
## FM configuration

Activate Public Sector - Usually done at system implementation



Enterprise Structure -> Define Funds Management Area ->Assign Company code to Funds Management Area

### Activate Account Assignment Elements

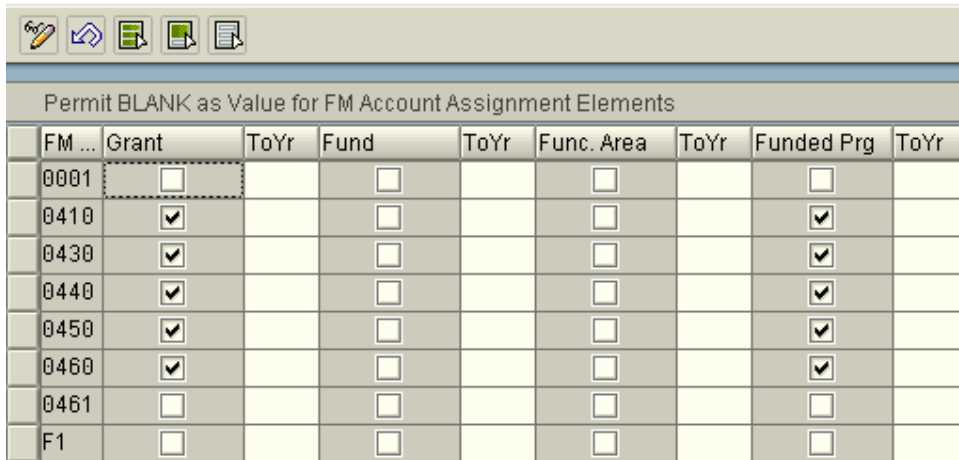


All fields will be activated at WFP,

Can be assigned in HR – this is the date from which these dimensions can be referenced from within HR for usage in payroll postings & distributions.

## Permit Blanks

### Change View "Permit BLANK as Value for FM Account Assi




FM ...	Grant	ToYr	Fund	ToYr	Func. Area	ToYr	Funded Prg	ToYr
0001	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
0410	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
0430	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
0440	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
0450	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
0460	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
0461	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
F1	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

The above setting says that all fields must be assigned, always. Sometimes as a transition aid, blanks may be allowed in newly used dimensions for a few years (depending upon how long documents stay open)

## Activate FM

### Change View "Activate Additional Functions": Details

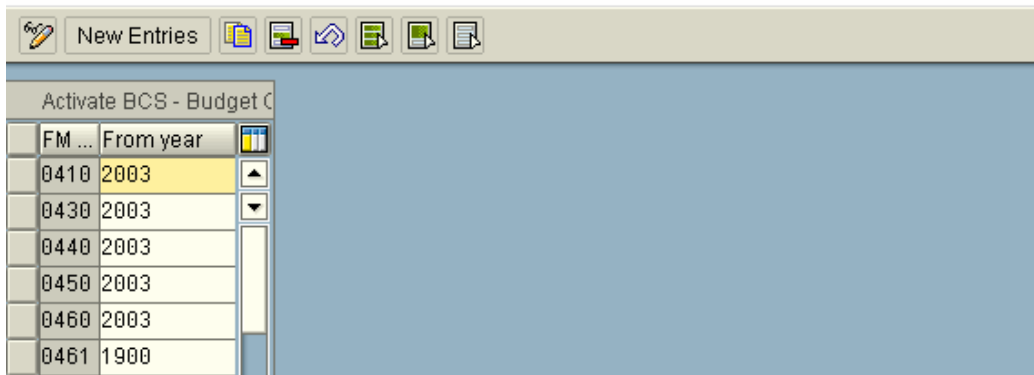


Activate Additional Functions

Funds Management (PSM-FM)

## Activate BCS

### Change View "Activate BCS - Budget Control System": Overview



FM ...	From year
0410	2003
0430	2003
0440	2003
0450	2003
0460	2003
0461	1900

A little trick if we may want to have one setting in development system (e.g. 2006) and a different setting in the production system (2008). It depends upon the strategy for system conversion.

## Master Data related configuration

### Commitment Items

#### *Change View "Create Variants in FM Area/Fiscal Year": Overview*

FM Area 0461

Create variants in FM area/fiscal year

FiscalYear	Variant	Name
	000	

Standard hierarchy variant is delivered (value 000)

As many alternative hierarchies as necessary can be defined. Alternate hierarchies are defined to support AVC and/or reporting requirements. For reporting requirements, commitment item groups (or sets) may be used instead of alternate hierarchies.

### Funds Centers

#### *Change View "Funds Centers Hierarchy Variants": Overview*

FM Area 0461

Funds Centers Hierarchy Variants

Hierarchy Variant	Name
000	

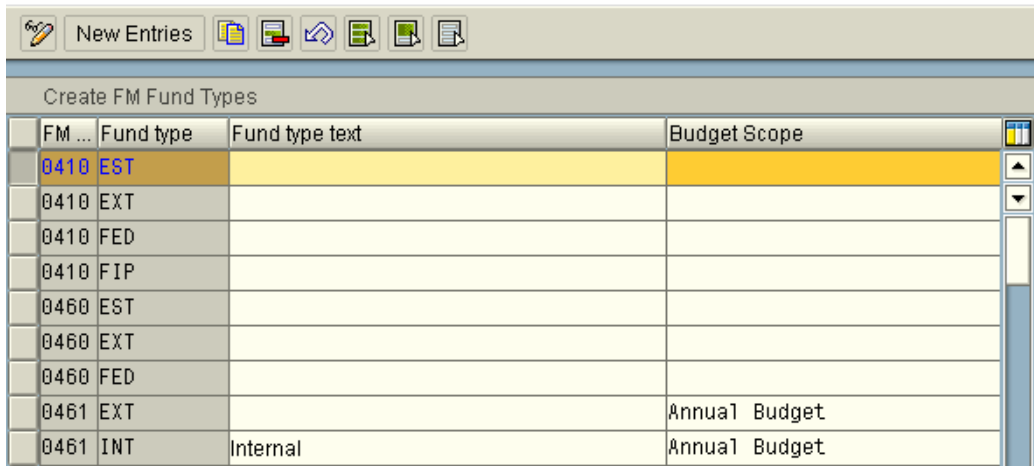
Standard hierarchy variant is delivered (value 000)

As many alternative hierarchies as necessary can be defined. Alternate hierarchies are defined to support AVC and/or reporting requirements. For reporting requirements, funds center groups (or sets) may be used instead of alternate hierarchies.

There is a function within the IMG to change the assignment of hierarchy variants to FM areas which may be useful when the organizational structure changes such as each new biennium. An example might be when Budget moved from office of executive director to the office of the chief financial officer.

## Fund

### Change View "Create FM Fund Types": Overview

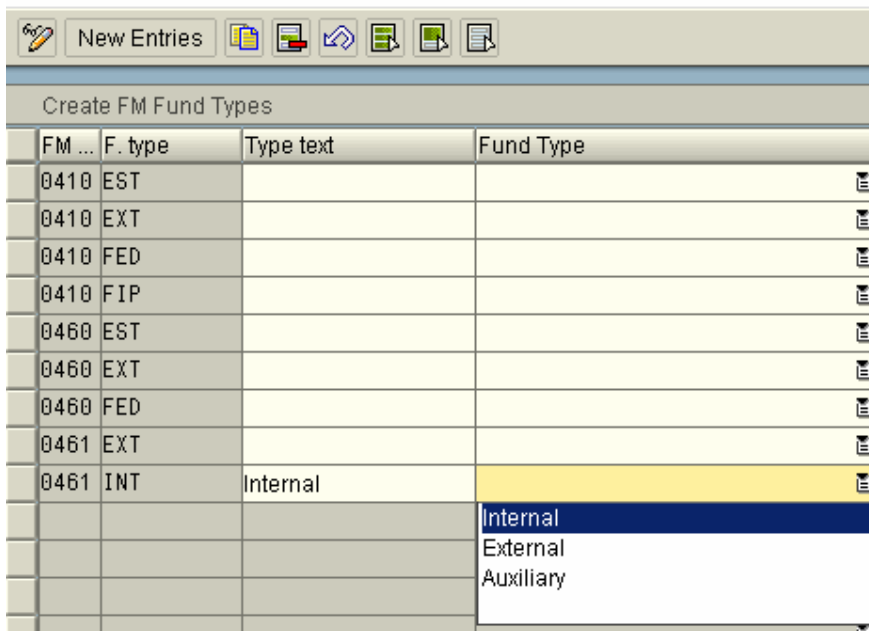


FM ...	Fund type	Fund type text	Budget Scope
0410	EST		
0410	EXT		
0410	FED		
0410	FIP		
0460	EST		
0460	EXT		
0460	FED		
0461	EXT		Annual Budget
0461	INT	Internal	Annual Budget

Define fund type – we need at least two to support grants management.

There is a grants management fund type screen:

### Change View "Create FM Fund Types": Overview



FM ...	F. type	Type text	Fund Type
0410	EST		
0410	EXT		
0410	FED		
0410	FIP		
0460	EST		
0460	EXT		
0460	FED		
0461	EXT		
0461	INT	Internal	
			Internal
			External
			Auxiliary

## Field Status for FM Master Data

We can turn on or off some fields in master data or make them required:

### Commitment items:

Field name	Description	Hide	Display	Opt. entry	Reqd entry
AUGRP	Authorization group			<input checked="" type="radio"/>	<input type="radio"/>
BEZEI	Name				<input checked="" type="radio"/>
BUTYP	BS element type	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
FICTR	Proposal Funds Ctr.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
FIVOR	Financial trans.				<input checked="" type="radio"/>
FPART	Commitment Item Type	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
KRTYP	Criterion category	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NEGBUD	Negative Budget	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
POTYP	Commitment Item Cat.				<input checked="" type="radio"/>
SNROL	CBA role	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
SNTYP	CBA type	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
STATS	Stat commitment item	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
STVAR	Standard variant	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TEXT1	Description	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TEXT2	Description 2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TEXT3	Description 3	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
VARNT	Variant	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
VPTYP	Carryfwd item cat.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

### Funds Center

Field name	Description	Hide	Display	Opt. entry	Reqd entry
AUGRP	Authorization group			<input checked="" type="radio"/>	<input type="radio"/>
BESCHR	Description	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
BEZEICH	Name				<input checked="" type="radio"/>
BOSSID	User name				<input checked="" type="radio"/>
BOSSNAME	Name of Person Resp.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
BUKRS	Company Code	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
FINCODE	Default Value Fund	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
GSBER	Business Area	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

## Fund

Field name	Description	Hide	Display	Opt. entry	Reqd entry
AUGRP	Authorization group			<input checked="" type="radio"/>	<input type="radio"/>
BESCHR	Description	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
BEZEICH	Name				<input checked="" type="radio"/>
DATAB	Valid from				<input checked="" type="radio"/>
DATBIS	Valid to				<input checked="" type="radio"/>
DATE_CAN	Reversal date	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
DATE_EXP	Expiration date	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
FINUSE	Funds application	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
KZBST	Balance update	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
PROFIL	Fund budget profile	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
SPONSOR	Customer for fund	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
TYPE	Fund type	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

These settings then need to be assigned to the FM Area

## Account Assignment Derivation

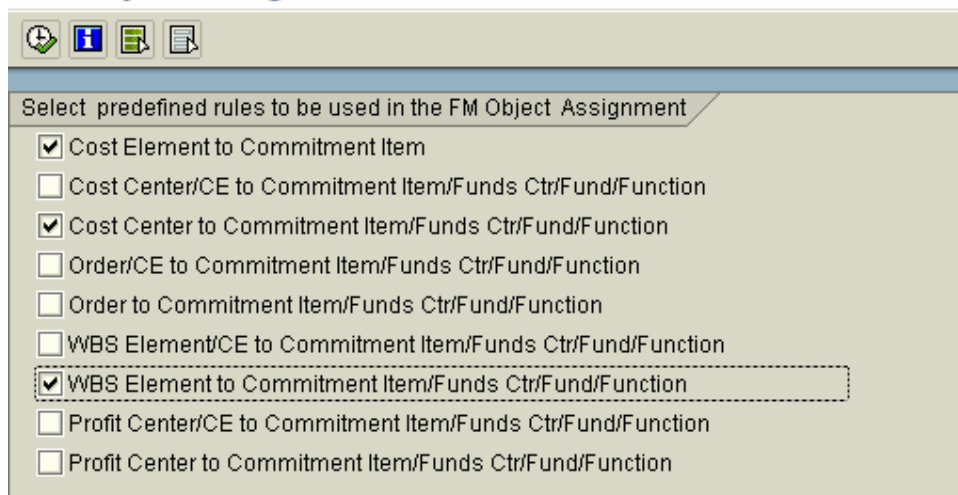
### Intelligent numbering

– Intelligent number is considered a best business practice by SAP. Its primary benefits are twofold: it makes the relationship between funds management objects and their related objects in other modules easy to grasp; and it eliminates the need (or most of the need) for derivation tables.

### Select Derivation Steps

SAP supplies 9 predefined derivation rules

#### *FM Object Assignment Derivation Tool - Predefined Rules*



Select predefined rules to be used in the FM Object Assignment

- Cost Element to Commitment Item
- Cost Center/CE to Commitment Item/Funds Ctr/Fund/Function
- Cost Center to Commitment Item/Funds Ctr/Fund/Function
- Order/CE to Commitment Item/Funds Ctr/Fund/Function
- Order to Commitment Item/Funds Ctr/Fund/Function
- WBS Element/CE to Commitment Item/Funds Ctr/Fund/Function
- WBS Element to Commitment Item/Funds Ctr/Fund/Function
- Profit Center/CE to Commitment Item/Funds Ctr/Fund/Function
- Profit Center to Commitment Item/Funds Ctr/Fund/Function

I personally feel that all of these are worthless. They approximate the way that derivations were done in former budgeting.

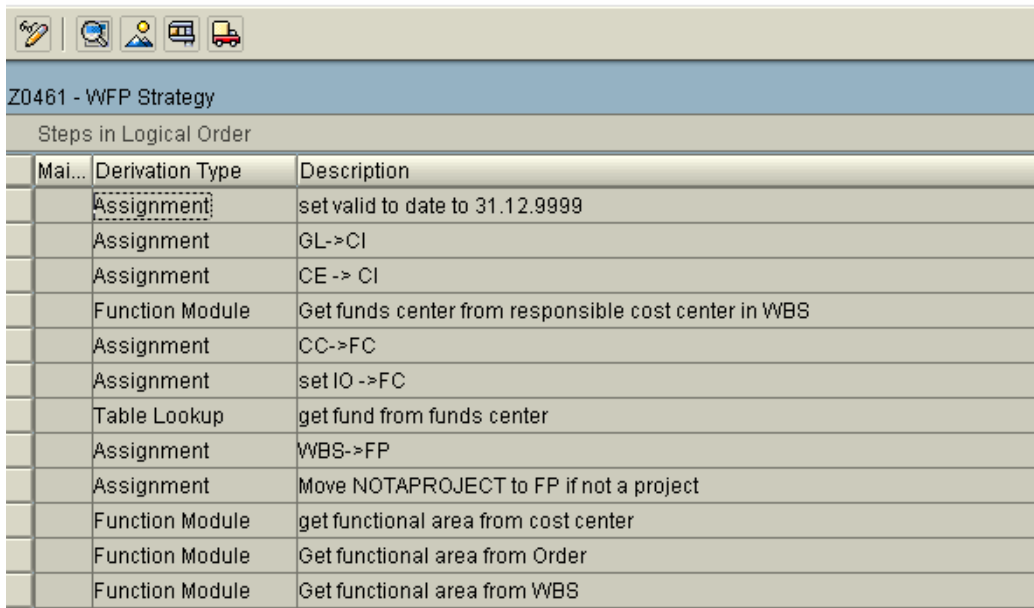
## Define account assignment derivation

Transaction FMDERIVE may be executed outside the IMG to maintain the strategy. Transaction FMDRIVER is the transaction in the standard SAP menu tree and may only be used to maintain values in derivation tables.

Derivation tables should only be used when no other alternative is available. These tables have to be maintained by responsible persons as new master data is added.

Derivation strategies are assigned to company codes:

### Z0461 - WFP Strategy: Display Strategy



Mai...	Derivation Type	Description
	Assignment	set valid to date to 31.12.9999
	Assignment	GL->CI
	Assignment	CE -> CI
	Function Module	Get funds center from responsible cost center in WBS
	Assignment	CC->FC
	Assignment	set IO ->FC
	Table Lookup	get fund from funds center
	Assignment	WBS->FP
	Assignment	Move NOTAPROJECT to FP if not a project
	Function Module	get functional area from cost center
	Function Module	Get functional area from Order
	Function Module	Get functional area from WBS

This is the strategy that fits my current understanding of WFP account assignment requirements.

## Features of derivation:

Step Description – very important for people maintaining the strategy

## Negative Example

SAP - Standard Derivation Strategy					
Steps in Logical Order					
User-Defin...	Mo...	Mai...	Derivation Type	Description	
			Routine Call	Commitment Item from Account	
			Routine Call	Funds Center from Commitment Item Master Data	
				Derivation Rule	Cost Element to Commitment Item
				Derivation Rule	WBS Element to Commitment Item/Funds Ctr/Fund/Function
				Derivation Rule	Cost Center to Commitment Item/Funds Ctr/Fund/Function
			Routine Call	Plant Maintenance Assignment (Table FMZUOB)	
			Routine Call	Network Header Assignment (Table FMZUOB)	
			Routine Call	Network Activity Assignment (Table FMZUOB)	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Table Lookup	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Derivation Rule	
				Function Module	
				Assignment	
				Assignment	
				Table Lookup	
				Derivation Rule	

SAP delivered strategy in IDES – what is the function of the steps with no description? You have to drill into the rules to determine the functional of the rule.

## Fields Available:

57 fields are available to help in account assignment derivation

Field Name	Short Text
ACCOUNT_NUMBER	G/L account number
ASSET	Main Asset Number
BUILDING_NUMBER	Building number
BUSINESS_ENTITY	Number of business entity
BUS_AREA	Business Area
COMMIT_ITEM	Commitment item
COMPANY_CODE	Company Code
CONTRACT_NUMBER	Real Estate contract number
COSTOBJECT	Cost Object
COST_CENTER	Cost Center
COST_ELEMENT	Cost Element
CO_AREA	Controlling Area
CO_BUSPROC	Business Process
DISTR_CHAN	Distribution Channel
DIVISION	Division
DR_CR_IND	Debit/Credit Indicator
FIVOR	Financial transaction
FLG_INVNTRY_PSTNG	Indicates that the current posting is an inventory posting
FM_AREA	Financial Management Area



FUNCTION_AREA	Functional Area
FUND	Fund
FUND_CENTER	Funds Center
FUND_TYP	FM Fund Type
GRANT_NBR	Grant
KOSTV	Responsible cost center
LEASE_NUMBER	Lease-out Number
MATERIAL_NUMBER	Material Number
MEASURE	Program in Funds Management
MOVE_TYPE	Movement Type (Inventory Management)
ORDER_NUMBER	Order Number
ORDER_NUMBER_NP	Network Number for Account Assignment
ORDER_NUMBER_NV	Routing number of operations in the order
ORDER_NUMBER_PM	Order Number of a Maintenance Order
ORDER_NUMBER_SD	Sales and Distribution Document Number
ORDER_POSNR_NV	General counter for order
ORDER_POSNR_SD	Sales Document Item
PARTNER_FUND	Partner Fund
PARTNER_FUND_TYP	FM Fund Type
PART_PRCTR	Partner profit center
PLANT	Plant
POSTING_DATE	Date for beginning of validity
PROFIT_CENTER	Profit Center
PROPERTY_NUMBER	Property number for BE
RENTAL_UNIT	Number of Rental Unit
REVERSEDOK	Identifier for reversal document
SALESORG	Sales Organization
SETTLEMENT_UNIT	Settlement unit
SPEC_STOCK	Special Stock Indicator
SUB_ASSET	Asset Subnumber
TRANSAC	Business Transaction
TRANSAC_TYPE	Transaction type
TR_PART_BA	Trading partner's business area
USERTEMP1	Temporary field 1 (user-defined)
VAL_AREA	Valuation area
VAL_CLASS	Valuation Class
VAL_TYPE	Valuation type
WBS_ELEMENT	Work Breakdown Structure Element (WBS Element)

### Input field attributes:

The screenshot shows a dialog box titled 'Z0461 - WFP Strategy: Change Field Attributes'. The field name is 'G/L account number'. The 'Initial Value is Allowed' checkbox is checked. In the 'Details' section, 'Part of Fld Contents' is selected. The 'Field Length' is 10, 'From Character Position (Begin at 0)' is 2, and 'Number of Characters' is 8. At the bottom are icons for OK, Cancel, and Close.

Entire field or part of field – some fields look like they are one size but are stored as another size.

### Output field Attributes

The screenshot shows a dialog box titled 'Z0461 - WFP Strategy: Change Field Attributes'. The field name is 'Commitment item'. The 'Overwrite With New Value' radio button is selected. In the 'Details' section, 'Entire Fld Contents' is selected. The 'Field Length' is 24, 'From Character Position (Begin at 0)' is 0, and 'Number of Characters' is 24. At the bottom are icons for OK, Cancel, and Close.

Do not overwrite if field is filled –

this allows the user to enter a value without it being overwritten by derivation. I generally do not allow users to enter any FM dimensions (except fund accountants). Also, if the value has been derived in a prior step, you may not wish to overwrite.

Overwrite with New Value – this is the ‘normal’ setting, it says overwrite per the derivation rule.

Overwrite with new value even if new value is empty – I’ve never used this setting

Entire field or part of field – may be helpful but not generally used

## Conditions

Assignment

Step Description: WBS->FP

Active

Definition  Condition

Only Execute If All Conditions Listed Below Are Met

Name	Det...	Description	Op.	Value	Desc
WBS_ELEME...		Work Breakdown Structure Element (...)	<=>		

Under what conditions is the step executed.

Can check on entire field or part of field

Here is a list of the Boolean operators:

Operat...	Short text
=	Equal to
<>	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to

Important difference between ECC5.0 and ECC6.0 – in ECC 5.0 conditions are ‘and’ed together. In ECC6.0, you can use ‘And’s and ‘Or’s. Much more flexible!!

## Rule Attributes

Definition  Condition   Attributes

Issue Error Warning If No Value Found

End Strategy Processing If Value Found

Allow Entry Maintenance with Validity Date

User-defined step ID (optional, see F1 help)

End Strategy processing if Value found –

Sequence of derivation steps is important, this allows the strategy to exit.

Handy if you have derivation steps that are not mutually exclusive, must get sequence correct.

Allow entry maintenance with validity date – I recommend use of this for every derivation table, this allows entry of derivation data with a validity date range – useful for dealing with year end, if no intelligent numbering.

Useful as it passed to ABAP for user exits.

## Rule types

### Initialization

Initialization

Step Description Initialize work field

Active

Definition Condition

The following field should be cleared:

Origin	Field	USERTEMP1	Temporary field 1 (user-defined)
--------	-------	-----------	----------------------------------

### Assignment

Assignment

Step Description set valid to date to 31.12.9999

Active

Definition Condition

Source Field

Constant 99991231

Target Field USERTEMP1 Temporary field 1 (user-defined)

Assignment

Step Description set IO ->FC

Active

Definition  Condition

Source Field ORDER\_NUM... +6(6) Order Number

Constant

Target Field FUND\_CENT... Funds Center

Set a field value with either a constant or with another field value

## Derivation Table

Derivation Rule

Step Description **Cost Element to Commitment Item**

Active

Definition Condition **Attributes**


Source Fields

Name	Det...	Description
CO_AREA		Controlling Area
COST_ELEM...		Cost Element

Target Fields

Name	Det...	Description
COMMIT_IT...		Commitment item

A user maintained table to enable derivation. This is the tool that was generally used in former budgeting. The source fields were the input, the target field was the output.

The  button enables maintenance of the values

Rule Values					
	Controlling Area	Cost Element	Valid from	As...	Commitment item
	0410	921000	21.03.2003	=	921000
	0410	921010	21.03.2003	=	921010
	0410	921020	21.03.2003	=	921020
	0410	921030	21.03.2003	=	921030
	0410	921040	21.03.2003	=	921040
	0410	921050	21.03.2003	=	921050
	0410	921060	21.03.2003	=	921060
	0410	921070	21.03.2003	=	921070

Above is the value maintenance screen (with validity dates).

Maintenance of account assignment derivation tables is available from the user menu outside the IMG and can be accessed using transaction FMDERIVER

## Function Module

SAP delivers 17 canned function modules

Function Module Name	Short text for function module
FMDT_CONVERSION_EXIT_ALPHA_OUT	Conversion ALPHA output
FMDT_READ_MD_ACCOUNT_COMPANY	Read Account Master Data
FMDT_READ_MD_ASSET	Read Asset Master Data
FMDT_READ_MD_CMMT_ITEM	Read Commitment Item Master Data
FMDT_READ_MD_COST_CENTER	Read Cost Center Master Data
FMDT_READ_MD_FUND	Read Funds Center Master Data
FMDT_READ_MD_FUNDS_CTR	Read Funds Center Master Data
FMDT_READ_MD_GRANT	Read Grant Master Data
FMDT_READ_MD_ORDER	Read Order Master Data
FMDT_READ_MD_ORDER_OPERATION	Read Operation within an order
FMDT_READ_MD_ORDER_SD_HEADER	Read SD Order Header Master Data
FMDT_READ_MD_ORDER_SD_ITEM	Read SD Order Item Master Data
FMDT_READ_MD_WBS_ELEMENT	Read WBS Element Master Data
FMDT_READ_ORDER_NP_FROM_FMZUOB	Read Network Header to FM Assignment from FMZUOB
FMDT_READ_ORDER_NV_FROM_FMZUOB	Read Network Activity to FM Assignment from FMZUOB
FMDT_READ_ORDER_PM_FROM_FMZUOB	Read Plant Maintenance to FM Assignment from FMZUOB
FMDT_READ_ORDER_SD_FROM_FMZUOB	Read Sales Distribution Order to FM Assignment from FMZUOB

## Example

### Z0461 - WFP Strategy: Change Function Module

Function Module: FMDT\_READ\_MD\_WBS\_ELEMENT Read WBS Element Master Data  
Step Description: Get funds center from responsible cost center in WBS  
Active

Definition Condition Attributes

Src Fields				
Fid Name	Description	Fid	Det...	Description
POSID	Work Breakdown Structure Ele...	WBS_ELEME...		Work Breakdown Structure Element (WBS Element)

TargetFids				
Fid Name	Description	Det...	Fid	Description
FKOKR	Controlling area of responsible ...			
FKSTL	Responsible cost center		COST_CENT...	Cost Center
FABKL	Factory calendar key			

I used the function module to set the cost center to the responsible cost center in the WBS element so I could use an assignment function to assign funds center from cost center in a subsequent step.

## Table Lookup

We can read any table within R3 to help in account assignment derivation, anything to avoid a derivation table!!

### *Z0461 - WFP Strategy: Change Table Lookup*

Origin	Field Name	Description	Ass...	Field Name	Det...	Description
FMFCTR	FIKRS	Financial Management Area	=	FM_AREA		Financial Management Area
FMFCTR	FICTR	Funds Center	=	FUND_CENT...		Funds Center
FMFCTR	DATBIS	FM: Valid to date	=	USERTEMP1		Temporary field 1 (user-de

Origin	Field Name	Det...	Description	Ass...	Field Name	Det...	Description
FMFCTR	FINCODE		Fund (Default Valu...	=	FUND		Fund


These can be strung together as necessary to get anything in the database. There can be a performance impact, so if you are doing something too complex, you may want to consider an enhancement.

## Enhancement

When all else fails, you can build your own derivation!!!

You can define input fields and output fields just like a derivation table. This is where you will most likely make use of the User-defined step ID on the attributes tab.

## Test/Trace Tool

Invoked by pressing the  button

Test is what you do when you enter values directly into the tool.

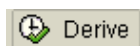
Trace is what you do when you enter other transactions.

The tool is very useful and should be used whenever a change is made to the strategy in test mode (does my change do what I thought it would do).

If you then enter a transaction and it either fails or doesn't do what you intended, you should use the trace tool.

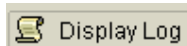
## Fields that can be used in 'Test' mode

Test FM Object Assignment - Derivation Strategy Z0461			
Valid from	13.11.2006	Business Transaction	<input type="checkbox"/>
Temp. field 1		Transaction type	<input type="checkbox"/>
		<input checked="" type="checkbox"/> Trace is inactive	
		<input type="checkbox"/> Reversal document	
Organization Objects			
FM Area	0461	Business Area	<input type="checkbox"/>
CO Area	0461	Plant	<input type="checkbox"/>
Company Code	0461	Sales Organization	<input type="checkbox"/>
		Division	<input type="checkbox"/>
		Distr. Channel	<input type="checkbox"/>
FI/MM Objects			
Asset	<input type="checkbox"/>	Valuation type	<input type="checkbox"/>
Subnumber	<input type="checkbox"/>	Valuation area	<input type="checkbox"/>
G/L account no.	51050600	Valuation Class	<input type="checkbox"/>
Movement Type	<input type="checkbox"/>	Material	<input type="checkbox"/>
		<input type="checkbox"/> Inventory Posting	
		Special Stock	<input type="checkbox"/>
		Debit/Credit	<input type="checkbox"/>
CO/SD Objects			
Cost Element	<input type="checkbox"/>	WBS Element	<input type="checkbox"/>
Cost Center	CUBA - D2	Network	<input type="checkbox"/>
Order	<input type="checkbox"/>	Opern task list no.	<input type="checkbox"/>
PM Order	<input type="checkbox"/>	Profit Center	<input type="checkbox"/>
		Cost Object	<input type="checkbox"/>
		Business Proc.	<input type="checkbox"/>
		Sales document	<input type="checkbox"/>
		Item	<input type="checkbox"/>
Real Estate Objects			
Property	<input type="checkbox"/>	Business entity	<input type="checkbox"/>
Building	<input type="checkbox"/>	Rental Unit	<input type="checkbox"/>
Contract no.	<input type="checkbox"/>	Lease-out	<input type="checkbox"/>
		Settlement unit	<input type="checkbox"/>
Partner			
Partner Fund	<input type="checkbox"/>	Partner profit ctr	<input type="checkbox"/>
Trading part.BA	<input type="checkbox"/>	Fund type	<input type="checkbox"/>



- this button indicates that you want to derive using the combination of fields that you have entered on the above screen, to derive the output field below:

FM/GM Account Assignment			
Commitment item	51050600	Fund	PSA000006
Funds Center	CUBA - D2	Funded Program	NOTAPROJECT
Functional Area	FISCAL	Grant	<input type="checkbox"/>



- press the display log button to see what happened, step by step.



## Characteristic Derivation: Analyze Derivation Steps


Derivation Strategy for FM Object Assignment ( Transaction ABAD0 Executed on 13.11.2006 13:02:23 )

Values before/after

Steps

0001	Assignment	set valid to date to 31.12.9999
0002	Assignment	GL->CI
0003	Assignment	CE -> CI
0004	Function Module	Get funds center from responsible cost center in WBS
0005	Assignment	CC->FC
0006	Assignment	set IO ->FC
0007	Table Lookup	get fund from funds center
0008	Assignment	WBS->FP
0009	Assignment	Move NOTAPROJECT to FP if not a project
0010	Function Module	get functional area from cost center
0011	Function Module	Get functional area from Order
0012	Function Module	Get functional area from WBS

If the step is highlighted in yellow, it means that the step was executed.  
 If the step is not highlighted, it means that the step was not executed.

Press the  button to expand and show details information

### Values before/after expanding

Values before/after

Origin	Field Name	Description	Content before	Content after	
FMDERIVE	ACCOUNT_NUMBER	G/L account number	0051050600	0051050600	
FMDERIVE	COMMIT_ITEM	Commitment item		51050600	↔
FMDERIVE	COST_CENTER	Cost Center	CUBA-D2	CUBA-D2	↔
FMDERIVE	CO_AREA	Controlling Area	0461	0461	↔
FMDERIVE	FM_AREA	Financial Management Area	0461	0461	↔
FMDERIVE	FUNCTION_AREA	Functional Area		FISCAL	↔
FMDERIVE	FUND	Fund		PSA000006	↔
FMDERIVE	FUND_CENTER	Funds Center		CUBA-D2	↔
FMDERIVE	MEASURE	Program in Funds Management	NOTAPROJECT	NOTAPROJECT	↔
FMDERIVE	PLANT	Plant			↔
FMDERIVE	POSTING_DATE	Date for beginning of validity	20061113	20061113	↔
FMDERIVE	PROFIT_CENTER	Profit Center			↔
FMDERIVE	USERTEMP1	Temporary field 1 (user-defined)	99991231	99991231	↔
FMDERIVE	WBS_ELEMENT	Work Breakdown Structure Element			↔

Steps

### Step 2 expanded to show details:

0002 Assignment GL->CI

Derivation carried out.

Source Fields

Origin	Field Name	Description	Contents	Comments
FMDERIVE	ACCOUNT_NUMBER	G/L account number	51050600	Initial Value Not Allowed

Target Fields

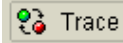

Origin	Field Name	Description	Content before	Content after	Comments
FMDERIVE	COMMIT_ITEM	Commitment item		51050600	Overwrite Target Value

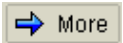
### Step 3 expanded to show details:

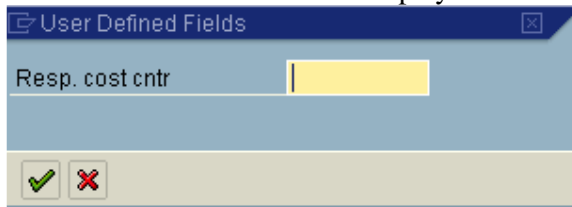
0003 Assignment      CE -> CI  
Derivation was not carried out. Reason: Not fulfilled  
Check condition for step

Origin	Field Name	Description	Contents	Op.	Constant	Result
FMDERIVE	ACCOUNT_NUMBER	G/L account number	0051050600	=		Not fulfilled

Press the  button to clear values

Press the  button to turn on the trace. You will notice that  is now displayed on the top of the screen. Trace will bring up the 'tools' screen from within any SAP transaction which invoked FM account assignment derivation.

Press the  button to display additional values:



It knows to use this field because it is used in the function call FMDT\_READ\_MD\_WBS\_ELEMENT Read WBS Element Master Data (step : Get funds center from responsible cost center in WBS).