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# **Assets Under Construction (BFV)**

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## **Icons**

Icon	Meaning
Δ	Caution
	Example
₽	Note
<b>②</b>	Recommendation
	Syntax

# **Typographic Conventions**

Type Style	Description
	Words or characters that appear on the screen. These include field names, screen titles, buttons as well as menu names, paths and options.
	Cross-references to other documentation.
Example text	Emphasized words or phrases in body text, titles of graphics and tables.
TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.
	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.
	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<example text&gt;</example 	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.

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# Asset Accounting

## **Purpose**

The purpose of this document is to describe the general configuration steps required to manually set up the configuration within the system landscape that has already been installed using the corresponding installation or configuration guides for installation.

If you want to install SAP S/4HANA locally (on-premise) and if you do not want to configure manually and prefer an automated installation process using BC Sets and other tools, you can set up a best-practice client and activate the implementation content. For more information, see the Administration Guide for the Implementation of SAP S/4HANA, on premise edition which is linked in the content library (included in the documentation package).

# 2 Preparation

## 2.1 Prerequisites

Before you start installing this scenario, you must install the prerequisite building blocks. For more information, see the Building Block Prerequisites Matrix.

## 2.2 Supported Deployments

The configuration guide provides the implementation content for the different SAP S/4HANA products:

- SAP S/4HANA Cloud (CE) minimal scope and content
- SAP S/4HANA (OP) installed locally (on-premise), full scope and content coverage

Depending on the use case/deployment option/ S/4HANA product version, you need to implement the required scope/content starting with the Public cloud chapter and proceed with the next required sections.

- For the full scope of the on premise scope & content PC and OP are required
- For the SAP S/4HANA Cloud scope & content CE is required; OP is not required

# 3 Configuration

## 3.1 Organizational Structures

## 3.1.1 Specify Account Determination

#### Use

The most important function of an asset class is to link asset master records to their respective general ledger accounts in Financial Accounting. This link is created by the account determination key in each asset class. You can assign several asset classes to the same account determination key.

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#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	S_ALR_87009195
IMG Menu	Financial Accounting (New) → Asset Accounting (New) → Organizational Structures → Asset Classes → Specify Account Determination

2. On the Change View "FI-AA: Account Determination": Overview screen, make the following entry:

Account Determination	Name for Account Determination
160090	Assets under Construction

3. Save your entry.

#### Result

The account determination key is created.



It is possible that more account determination keys exist in the system. For Best Practices, only the account determinations shown in the preceding table are used.

## 3.1.2 Create Screen Layout Rules

#### Use

The asset master record contains many fields because it is used for many different purposes. To make it easier to maintain master data, you can adapt the asset master record to suit your own needs.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	S_ALR_87009209
IMG Menu	Financial Accounting (New) → Asset Accounting (New) → Organizational Structures → Asset Classes → Create Screen Layout Rules

2. On the Change View "Asset Accounting: Screen layout for master record": Overv screen, make the following entries:

Screen Layout Rule	Name of Screen Layout Rule
Y400	Assets under construction
Y401	Capital investment measure

3. Save your entries.

#### Result

You have adapted the fields that appear in the asset master record.

## 3.1.3 Define Screen Layout for Asset Master Data

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#### Use

To meet the needs of its many functions, the asset master record contains many fields. To make master data maintenance as simple and efficient as possible, the system enables you to design the asset master record to best suit your needs.

Screen layout rules, as mentioned in the last preceding section (Y100 to Y900) have been created and assigned to the asset classes.

The screen layouts are copied from standard layouts provided by SAP. In all screen layout rules, the Description 1 and Cost Center fields have been defined as mandatory entry fields. Entry fields for both fields are set to required in all screen layout rules.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	S_ALR_87009044
IMG Menu	Financial Accounting (New) $\rightarrow$ Asset Accounting (New) $\rightarrow$ Master Data $\rightarrow$ Screen Layout $\rightarrow$ Define Screen Layout for Asset Master Data

- 2. On the Choose Activity dialog box, double-click Define Screen Layout for Asset Master Data.
- 3. On the Change View "Screen layout": Overview screen, in the Layout column, select the relevant screen layout (carry out the step for each screen layout given in the table below).
- 4. In the Dialog Structure, double-click Logical field groups.
- 5. On the Display View "Logical field groups": Overview screen, in the Log.fld.gr column, select the relevant logical field group.
- 6. In the Dialog Structure, double-click Field group rules.
- 7. On the Change View "Field group rules": Overview screen, make the entries listed in the table below.
- 8. Save your entries.

Screen Layout	Log fld.gr	FG	Req.	Opt.	No	Class	MnNo.	Sbno.	Сору		
Screen Layout Y100											
Screen Layout Y400											
Y400	1	01	Х				Х	Х			
Y400	1	02		Х				Х			
Y400	1	03			Х			Х			
Y400	1	04		Х							
Y400	1	05		Х			Х	Х	Х		
Y400	1	06		Х			Х	Х	Х		
Y400	1	07		Х				Х			
Y400	1	09	Х								
Y400	1	75		Х			Х	Х			
Y400	1	79			Χ						
Y400	1	80			Х						

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Screen Layout	Log fld.gr	FG	Req.	Opt.	No	Class	MnNo.	Sbno.	Сору
Y400	1	82			Х		Х	Х	
Y400	2	10		Х		Х		Х	
Y400	2	11						Х	
Y400	2	12		Х			X	X	
Y400	2	13			Χ		X		
Y400	2	28		Х				Х	
Y400	2	43			Χ		X		
Y400	3	14			Χ		X		
Y400	3	15	Х			Х	X		Х
Y400	3	16		Х			Х	Х	Х
Y400	3	17			Χ				
Y400	3	18			Χ		X		Х
Y400	3	19			Х				
Y400	3	20			Χ				
Y400	3	21		Х			Х	Х	Х
Y400	3	22			Х	Х			
Y400	3	23		Х			Х	Х	Х
Y400	3	24			Х				
Y400	3	25			Χ				
Y400	3	26			Х				
Y400	3	27							
Y400	3	81			Χ				
Y400	3	88				Х			
Y400	3	89							
Y400	3	AA		Х			Х	Х	
Y400	3	AB		Х			Х	Х	
Y400	4	30		Х			Х	Х	Х
Y400	4	31		Х			Х	Х	Х
Y400	4	32		Х			Х	Х	Х
Y400	4	33		Х			Х	Х	Х
Y400	4	34		Х			Х	Х	Х
Y400	4	35		Х			Х	Х	Х
Y400	4	36		Х			Х	Х	Х

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Screen Layout	Log fld.gr	FG	Req.	Opt.	No	Class	MnNo.	Sbno.	Сору
Y400	4	76		Х			Х	Х	Х
Y400	5	70			Х				
Y400	5	71			Х				
Y400	5	72			Х				
Y400	5	73			Х				
Y400	6	50		Х			Х	Х	Х
Y400	6	51		Х		Х	Х		
Y400	6	52			Χ			Х	
Y400	6	53			Х			Х	
Y400	6	54		Х				Х	
Y400	6	55			Χ				
Y400	7	57			Х	Х		Х	
Y400	7	58			Х			Х	
Y400	7	59			Χ				
Y400	8	60			Х				
Y400	8	61			Х				
Y400	8	62			Χ				
Y400	8	63			Х				
Y400	8	64			Χ				
Y400	8	65			Х	Х			
Y400	8	66			Х				
Y400	8	67			Х				
Y400	8	68			Х				
Y400	8	69			Χ				
Y400	8	78			Х				
Y400	9	40			Х				
Y400	9	41		Х				Х	
Y400	9	42		Х				Х	
Y400	9	44		Х		Х		Х	
Y400	9	45			Х		Х	Х	
Y400	9	46			Х		Х	Х	
Y400	9	47		Х				Х	
Y400	10	08		Х			Х		

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Screen Layout	Log fld.gr	FG	Req.	Opt.	No	Class	MnNo.	Sbno.	Сору
Y400	10	29			Х				
Y400	11	37		Х			X	Х	Х
Y400	12	39		Х			X	Х	
Y400	13	83			Χ				
Y400	13	84			Х				
Y400	13	85			Х				
Y400	13	86			Χ				
Y400	13	87			Х				
Y400	207	J2		Х			Х	Х	Х

#### **Explanation**

Logical Field Group	Logical Field Group name	Asset Field Group	Field group name
1	General data	01	Description 1
1	General data	02	Description 2
1	General data	03	General long text
1	General data	04	Inventory number
1	General data	05	Unit of measure
1	General data	06	Quantity
1	General data	07	Asset main no. text
1	General data	09	Account allocation
1	General data	75	Serial number
1	General data	79	Longtxt.:C-acc.view
1	General data	80	Longtxt.:Tech.view
1	General data	al data 82 History indicator	
2	Posting information	information 10 Capitalization date	
2	Posting information	11	Acquisition data
2	Posting information	12	Deactivation
2	Posting information	13	Planned deactivation
2	Posting information	28	Purchase order date
2	Posting information	43	Capitalization key
3	Time-dependent data	14	License plate number
3	Time-dependent data	15	Cost center
3	Time-dependent data	16	Plant
3	Time-dependent data	17	Business area
3	Time-dependent data	18	Location
3	Time-dependent data	19	Building/Room No.
3	Time-dependent data	20	Activity type
3	Time-dependent data	21	Cost order
3	Time-dependent data	22	Multi-shift factor
3	Time-dependent data	23	Shutdown

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Logical Field Group	Logical Field Group name	Asset Field Group	Field group name		
3	Time-dependent data	24	Resp. cost center		
3	Time-dependent data	25	Personnel number HR		
3	Time-dependent data	26	Maintenance order		
3	Time-dependent data	27	Time-dep.date fields		
3	Time-dependent data	81	Tax jurisdict. code		
3	Time-dependent data	88	Fund		
3	Time-dependent data	89	Functional Area		
3	Time-dependent data	A0	Grant		
3	Time-dependent data	A1	Funds Center		
3	Time-dependent data	A2	Fund for Cap.Invstmt		
3	Time-dependent data	А3	Inv. Functional Area		
3	Time-dependent data	A4	Grant for Cap. Inv.		
3	Time-dependent data	A5	Funds Ctr for Inv.		
3	Time-dependent data	A6	WBS Element		
3	Time-dependent data	A7	Real Estate Object		
3	Time-dependent data	A8	Budget Period		
3	Time-dependent data	A9	Budget Period APC		
3	Time-dependent data	AA	Segment		
3	Time-dependent data	AB	Profit Center		
4	Allocations	30	Asset group number		
4	Allocations	31	Evaluation Group 1		
4	Allocations	32	Evaluation Group 2		
4	Allocations	33	Evaluation Group 3		
4	Allocations	34	Evaluation group 4		
4	Allocations	35	Investment purpose		
4	Allocations	36	Evaluation grp-8 pl.		
4	Allocations	76	Environ. investment		
5	Leasing	70	Leasing data 1		
5	Leasing	71	Leasing data 2		
5	Leasing	72	Leasing long text		
5	Leasing	73	Capital Lease Method		
6	Net worth valuation	50	Prop.classif.key		
6	Net worth valuation	51	Property indicator		
6	Net worth valuation	52	Man.val./assessed vl		
6	Net worth valuation	53	Reason for man. val.		
6	Net worth valuation	54	Longtext:NetWrth.tax		
6	Net worth valuation	55	Man/Assessed val.ind		
7	Real estate and similar rights	57	Notice of assessment		
7	Real estate and similar rights	58	Real estate		
7	Real estate and similar rights	59	Area unit		
8	Insurance	60	Insurance type		
8	Insurance	61	Insur. index series		
8	Insurance	62	Insur.base value		
8	Insurance	63	Man. insurable val.		
8	Insurance	64	Ind.:Man.Ins.value		

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Logical	Logical Field Group name	Asset	Field group name	
Field		Field		
<b>Group</b> 8	Insurance	<b>Group</b> 65	Insurance company	
8	Insurance	66	Insurance policy	
8	Insurance	67	Insurance text	
8	Insurance	68	Longtext:Insurance	
8	Insurance	69	Insurance rate	
8	Insurance	78	Insurable value	
9	Origin	40	Supplier	
9	Origin	41	Asset under constr.	
9	Origin	42	Prop.in-house prod.	
9	Origin	44	Manufacturer	
9	Origin	45	Origin long text	
9	Origin	46	Affiliated company	
9	Origin	47	Orig.value	
10	Inv. account assignment	08	Investment Order	
10	Inv. account assignment	29	Investment project	
11	Inventory	37	Inventory data	
12	Investment support measures	39	Investment support	
13	Equipment	83	Equipment Number	
13	Equipment	84	Equip. Catg./Type	
13	Equipment	85	Equipment Name	
13	Equipment	86	EquipSynchronization	
13	Equipment	87	Synchronize Asset	
201	Time-independent country data	G1	General Data CIS	
201	Time-independent country data	G3	Transport. Tax CIS	
201	Time-independent country data	G5	Net Worth Tax CIS	
201	Time-independent country data	GB	OKOF Code	
201	Time-independent country data	GC	Depreciation Group	
202	Time-dependent country data	G2	General Data CIS	
202	Time-dependent country data	G4	Transport. Tax CIS	
202	Time-dependent country data	G6	Net Worth Tax CIS	
202	Time-dependent country data	GD	New OKOF Code	
202	Time-dependent country data	GE	Depreciation Group	
204		G8		
204		JA		
204		JB		
204		JC		
204		JD		
204		JE		
204		JF		
204		JG		
204		JH		
206	Japan: PropTax (Time-indpndnt)	GA	Net Worth Tax RUS	
207	JP: Annex 16	J2	JP: Annex 16	
400	IN : Block Depreciation	G9	Block Depreciation	

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#### Result

In all screen layout rules, the Description 1 field (FG 01) has been defined as mandatory. The Cost Center field (FG 15) has been defined as required entry field for all screen layout rules.

#### 3.1.4 Define Asset Classes

#### Use

From an accounting point of view, the asset class is the most important element for structuring fixed assets. Each asset must be assigned to one asset class only. The asset class assigns the assets and their business transactions to the appropriate general ledger accounts. Several asset classes can be assigned to the same account, making it possible for fixed assets to be structured in more detail at asset class level. Such detailed structuring is not necessary at general ledger account level. It is also possible to define the screen layout, tab layout, and asset number assignment for each class.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	OAOA
IMG Menu	Financial Accounting (New) → Asset Accounting (New) → Organizational Structures → Asset Classes → Define Asset Classes

- 2. On the Change View "Asset classes": Overview screen, choose New Entries (F5).
- 3. On the New Entries: Details of Added Entries screen, make the following entries:

Class	Asset Class Description	Short Text		
4000	Assets under Construction	AuC		
4001	AuC as Investment Measure	Investment Measure		

4. Save your entries.

The maintenance of the asset classes should match the following screens:

Class	Acct.	Lay.	Base Unit	Nr. Ra.	Ext. sub- no	Include Asset	Status of AuC	Lock Status	Manage Histor.	Real Est. Indicator
4000	160090	Y400		04			Line Item settlm.		0	0
4001	160090	Y400		04			Invstmnt measure		0	0



Abbreviations:

Class = Asset class

Acct. = Account Determ. (Account Determination)

Lay. = Scr.Layout rule (Screen Layout Rule)

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Nr.Ra. = Number Range

No AuC = No AuC or summary management of AuC (AuC = Asset under Construction)

0 = Other asset without real estate management



Since the number of asset classes and the way they are structured varies from customer to customer, only a small number of asset classes have been created in the system to serve as examples. At least one asset class has been created for each asset account in the general ledger. Some asset classes refer to the same general ledger account (for example, 1000 and 1200, 4000 and 4001).

Asset class 4001 is indicated as the asset class for investment measures.

The asset classes must always be revised when the system is set up.

#### Result

Asset classes have been defined.

#### Result

The tab layouts are designed.

#### 3.1.5 Assign Tab Layout to Asset Classes

#### Use

The master data layout ZBPA must be assigned to asset classes.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	AOLK
IMG Menu	Financial Accounting (New) → Asset Accounting (New) → Master Data → Screen Layout → Specify Tab Layout for Asset Master Record

- 2. If you access this transaction via the IMG Menu, in the Choose Activity dialog box, doubleclick Assign Tab Layouts to Asset Classes.
- 3. In the Display View "Asset Class": Overview screen, select the relevant asset classes (listed in the table below) in the Asset Class panel.
- 4. In the Dialog Structure, double-click General Assignment of Layout.
- 5. On the Change View "General Assignment of Layout": Overview screen, make the following entry for each relevant asset class:

Trans.grp	Name	Tab layout	Layout des	
OTHERS	Asset accountant	ZBPA	Layout Best Practices	

- 6. Choose Back and select the next asset class and begin again with step 3.
- 7. Save your entries.

#### Result

The master data layout ZBPA has been assigned to all relevant asset classes:

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Asset Class	Trans.grp	Tab Layout	
4000	OTHERS	ZBPA	
4001	OTHERS	ZBPA	

## 3.2 Integration with General Ledger Accounting

#### Use

The system settings and entries you make in this section are required for the integration of Asset Accounting with the General Ledger:

- Depreciation areas that post depreciation/APC automatically to the General Ledger
- G/L accounts that are relevant for Asset Accounting (reconciliation accounts and accounts that are posted using batch input)
- Screen layout controls for G/L accounts
- Default input tax indicator for transactions not subject to tax
- Specifications for periodic posting of depreciation to the General Ledger

#### Result

The depreciation areas that post their APC transactions and/or depreciation to the general ledger are specified.

#### 3.2.1 Assign G/L Accounts - Balance Sheet

#### Use

You must specify general ledger accounts – such as balance sheet accounts and depreciation accounts to post your asset figures to general ledger accounts.

## **Prerequisites**

The general ledger accounts must be set up.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	AO90
IMG Menu	Financial Accounting (New) $\rightarrow$ Asset Accounting (New) $\rightarrow$ Integration with General Ledger Accounting $\rightarrow$ Assign G/L Accounts

- 2. On the Change View "Chart of Accounts": Overview screen, select Chart of Accounts YCOA.
- 3. In the Dialog Structure, double-click Account Determination.
- 4. On the Change View "Account Determination": Overview screen, select the relevant account determination.
- 5. In the Dialog Structure, double-click Balance Sheet Accounts.
- 6. On the Change View "Balance Sheet Accounts": Details screen, make the following entries for general ledger accounts (chart of accounts YCOA):

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Acct. Determination	Depr. Area	Bal.sh.acct. APC  down payments		Contra account: Acquisition value	Down – payments clearing account	Acquisition from affiliated company	Revenue from post- capitaliz.
160090	1	16009000	16012000	16014100	16013000	16014100	70010000

Acct. Determination	Depr. Area		Loss made on asset	Clearing acct.	Gain from	Loss from	Revaluation acquis. And	Offsetting account: Revaluation
table 2		retirement w/o reven.	from asset sale	asset sale	asset sale	production costs	APC	
160090	1	71010000	70030000	71010100	71010000			

Acct. Determination	Depr.	Revaluation acquis. And	Offsetting account:	Cost. Elem. For	Capital. Difference/	Clearing	Repayment	Expens Repayn
table 3	Area	production costs	production Reval/ AUC to CO		Non- operating expense	invest. support	of invest/ support	of inves
160090	1	16009000	16015000					

## 3.2.2 Assign G/L Accounts - Depreciation

#### Use

Here, you specify the accounts used for posting depreciation.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	AO90	
IMG Menu	Financial Accounting (New) $\rightarrow$ Asset Accounting (New) $\rightarrow$ Integration with General Ledger Accounting $\rightarrow$ Assign G/L Accounts	

- 2. On the Change View "Chart of Accounts": Overview screen, select Chart of Accounts YCOA.
- 3. In the Dialog Structure, double-click Account Determination.
- 4. On the Change View "Account Determination": Overview screen, select the relevant account determination.
- 5. In the Dialog Structure, double-click Depreciation.
- 6. On the Change View "Depreciation": Details screen, make the following entries for general ledger accounts (chart of accounts YCOA):

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Acct. Determi- nation	Depr.	Depr. Acc.dep.accnt.for accordinary depreciation		Expense account for ordinary		Expense account for ord. dep.	Revenue from write-up on	
table 1	Alea	ordinary depreciation		depr	eciation	below zero	ord.deprec.	
160090	1	17009000	6403	0000		71010200		

#### 3.3 Transactions

#### 3.3.1 Determine Cost Element for Settlement to CO Receiver

#### Use

When you settle an asset with line item management, debits can be settled to CO receivers (particularly cost centers). This might be necessary if debits were capitalized to the asset under construction by mistake. The system requires a cost element to make this settlement to CO receivers.



In chart of accounts YCOA, account 70015000 has been defined in AuC account determination 160090 for depreciation area 01 as the cost element for settlement of the asset under construction to CO objects.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	A089
IMG Menu	Financial Accounting (New) → Asset Accounting (New) → Transactions → Capitalization of Assets under Construction → Determine Cost Element for Settlement to CO Receiver

2. If the Chart of Depreciation Selection screen displays, make the following entries and press Enter.

Field name	Description	User action and values	Note
ChDep	Chart of Depreciation	<your chart="" depreciation="" of=""></your>	

- 3. On the Change View "Chart of Accounts": Overview screen, select Chart of account YCOA.
- 4. In the *Dialog Structure*, double-click *Account Determination*.
- 5. On the Change View "Account Determination": Overview screen, select account determination 160090.
- 6. In the Dialog Structure, double-click Assign Accounts to Areas.
- 7. On the Change View "Assign Accounts to Areas": Details screen, make the following entries:

Field Name	Description	User Actions and Values	Note
Cost Elem. for Settlmt AuC to CO Objects		70015000	

Save your entries.

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#### 3.3.2 Define Investment Profile

#### Use

The investment profile controls the creation of an asset under construction belonging to the capital investment measure and the creation of the master data for the depreciation simulation/forecast when you create a capital investment measure.

#### **Procedure**

1. Access the activity using one of the following navigation options:

Transaction Code	OITA
IMG Menu	Investment Management $\rightarrow$ Internal Orders as Investment Measures $\rightarrow$ Master Data $\rightarrow$ Define Investment Profile

- 2. If you access this transaction via the IMG Menu, in the Choose Activity dialog box, doubleclick Define Investment Profile.
- 3. On the Change View "Investment profile": Overview screen, choose New Entries.
- 4. On the New Entries: Details of Added Entries screen, make the following entries:

Field name	User action and values	Note
Investment profile	000001	
name of capital investment profile	Model with AuC, summary settlement	
Manage AuC	X	activate
Investment classes	4001	
summary settlement	X	activate
Ident.Val.	X	activate
Percentage rates	X	activate
Ovrl.plan value	X	activate

- 5. Save your entries.
- 6. Go back to step 3 and enter the following additional investment profile.

Field name	User action and values	Note
investment profile	000002	
name of capital investment profile	Model for depreciation simulation only	
Manage AuC		do not activate
investment classes		do not enter an inv. class
Summary settlement	X	activate
Ident.Val.	X	activate
Percentage rates	X	activate

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Field name	User action and values	Note
Ovrl.plan value	X	activate

- 7. Save your entries.
- 8. Go back to step 3 and enter the following additional investment profile.

Field name	User action and values	Note
investment profile	000003	
name of capital investment profile	Model with line item settlement of AuC	
Manage AuC	X	activate
investment classes	4001	
line item settlement and list of origins	X	activate
Ident.Val.	X	activate
Percentage rates	X	activate
Ovrl.plan value	X	activate

9. Save your entries.

# **Manual Build Steps**

For the configuration activities described in this document, no manual build steps are required.

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