




2015 CONTROLLING
SEPTEMBER 21-24 • SAN DIEGO



How to Verify Depreciation Values for SAP Asset Accounting

Presented by
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Meet the Experts

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How the heck did it get this number?

	A	B	C	D	E
1					
2	Asset	Sub	Year	Cost	Acc. Dep.
3	112233		0	2012	55,000
4					20,000



Explain how you got to this amount.

Planned values	Fiscal year start	Change	Year-end	Crcy
APC transactions	55,000.00		55,000.00	USD
Acquisition value	55,000.00		55,000.00	USD
Ordinary deprec.	11,000.00-	17,600.00-	28,600.00-	USD
Special depreciation				USD
Unplanned dep.				USD
Write-up				USD
Value adjustment				USD
Net book value	44,000.00	17,600.00-	26,400.00	USD




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Agenda

- Introduction
- Basic depreciation rules in SAP
- Asset Master Record
- Asset Explorer
- Example
- Summary
- Q&A

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Introduction




- SAP calculates all depreciation values for an asset automatically when:
 - The asset is first posted to
 - The asset master record is changed (automatic recalculation)
 - The asset is subsequently posted to (i.e. additional acquisitions, transfers, retirements, etc.)
 - Manually requested/performed (i.e. AS02, AFAR)

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Introduction




- The asset master record includes all information needed to calculate depreciation in SAP:
 - Depreciation key (includes the method and convention)
 - Depreciation start date (both for ordinary depreciation and for special bonus dep)
 - Useful life
 - Additional info: i.e. scrap value, multi-shift, etc.


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Introduction




- All depreciation books are calculated at the same time
- You can recalc values for all open fiscal years
- Typically, only the financial book area posts values to the G/L, all other areas (incl. tax) are just calculated values (no debit/credit or offsetting accounts)



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Basic Depreciation Rules in SAP


- All depreciation values are always calculated for the entire fiscal year, never for a specific month/period
- Depreciation Key typically includes a mathematical formula (as opposed to specific percentages like you see in the IRS tables)
- ... although, specific percentages are possible in SAP, too



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Basic Depreciation Rules in SAP


- When you make mid-year changes to any depreciation parameter (i.e. new key, date or useful life) SAP will recalculate depreciation for the entire fiscal year again...
- ...making it impossible to apply mid-year depreciation changes
- ...unless you are on the 'new depreciation calculation' which allows period-specific depreciation parameters



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Asset Master Record

Change Asset: Initial screen


Master data Depreciation areas Asset values

Asset: 4241

Subnumber: 0

Company Code: 3000

Transactions:
AS02 – Change asset
AS03 – Display asset



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Asset Master Record

Change Asset: Master data

Asset values
 Asset 4241 0 Lincoln Navigator
 Class 3100 Vehicles

General Time-dependent Allocations Origin Net Worth T

Description Lincoln Navigator
 Asset main no. text Lincoln Navigator
 Acct determination 30000 Fixtures and fittings
 Inventory number
 Quantity
 Manage historically

Inventory
 Last inventory on
 Inventory note

Posting information
 Capitalized on 07/01/2012

Deactivation

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Capitalization Date = In-service Date
 Used to determine the depreciation start date.
Note:
 There's only 1 cap. date!

Asset Master Record

Change Asset: Master data

Asset values
 Asset 4241 0 Lincoln Navigator
 Class 3100 Vehicles

General Time-dependent Allocations Origin

Valuation

A.	Depreciation area	DKey	UseLife	Prd	OD
01	Book deprec.	LINB	5		07
02	Book deprec.	LINB	5		007/01/2012
03	Book deprec.	LINB	5		007/01/2012
10	ACRS/MACRS	M200	5		07/01/2012
11	ALT MIN	NAU	5		07/01/2012
12	ACE	ACE	5		07/01/2012

Depreciation key = Method & Convention
 Useful life
 Depreciation start date

A few standard SAP-delivered tax depreciation keys:
 M200 – 200% DB, HY
 M150 – 150% DB, HY
 ACE – S/L, HY
 EP1 – S/L, MM

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Asset Master Record

Change Asset: Depreciation area ACRS/MACRS

Asset values Data for revaluation
 Asset 4241 0 Lincoln Navigator
 Class 3100 Vehicles
 Area 10 ACRS/MACRS Federal Tax ACRS/MACRS

Interval from 01/01/1900 to 12/31/9999

General Specifications
 Depreciation Key M200 MACRS 3,5,7,10 years property
 Useful life 5 /
 Exp. Useful Life 0 / 12
 Exp. Life Spec. Dep. /
 Changeover year /
 Units Depreciated

Special depreciation start date for bonus depreciation – separate from ordinary depreciation start date!

Start of Calculation
 Ord. dep. start date 07/01/2012
 Spec. depreciation
 Operating readiness 07/01/2012

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Asset Master Record

Change Asset: Depreciation area ACRS/MACRS

Asset values Data for revaluation ◀ ▶

Time-dependent depreciation calculation?

Asset: 4241 0 Lincoln Navigator

Class: 3100 Vehicles Company Code: 30

Area: 10-ACRS/MACRS Federal Tax ACRS/MACRS

Interval from 01/01/1900 to 12/31/9999

General Specifications

Depreciation Key: M200 MACRS 3,5,7,10 years property

Useful life: 5 / Start of Calculation

Exp. Useful Life: 0 / 12 Ord.dep.start date: 07/01/2012

Exp. Life Spec. Dep.: / Spec.depreciation:

Changeover year: / Operating readiness: 07/01/2012

Units Depreciated:

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Asset Explorer / Asset Value Display

- Very powerful transaction
- Display single or multiple years of depreciation
- Compare depreciation between books for one or multiple years
- Display depreciation calculation logic
- Simulate depreciation changes and transactions
- Translate currencies

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Asset Explorer / Asset Value Display

IRS MACRS Percentage Tables

Depreciation Tables used for Personal Property, Land Residential Rental Properties.

IRS percentage rate for 2nd year

Year	Percentage
1	20.00%
2	32.00%
3	19.20%
4	11.52%
5	11.52%
6	5.76%

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Asset Explorer / Asset Value Display

ion Calculation - Period Interval Method

Beginning of the year values plus all transactions for the selected year

Year	TotAPC PY	TotODep.PY	Total ODep	PlanODepPY
2013	55,000.00	11,000.00-	17,600.00-	17,600.00-

IRS vs. SAP base value

Period factor = how many months?

Calculation for the selected transaction above

Type	To Period	Base Value	Prd Fact	Percentage	Calc. Amt
N	24	44,000.00	1.00000	0.400000	17,600.00-
					= 17,600.00-

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Asset Explorer / Asset Value Display

ion Calculation - Period Interval Method

+/- Sign Rounding Calculation Order

More details calculation schemes here

Calculation Parameters Depreciation Terms Period Information

Depreciation Terms


Period Information

Year	Type	To Period	Useff.Life	ExpULPrd	Exp.Life/Segment	Wt.Prd	Wt.Seg	ChYr
2013	N	24	168	12	2.4000000000000000E+01	24	24	2017

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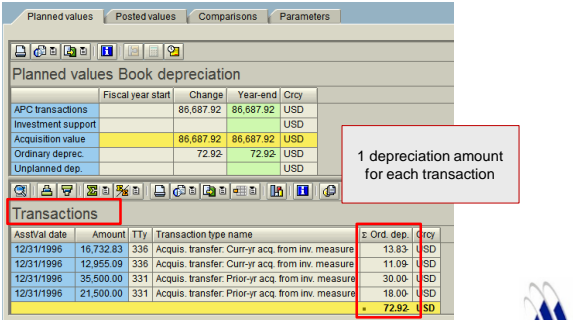
Old Depreciation Calculation

- Transaction-based calculation
- Separate depreciation amount for every transaction posted (stored in table ANEP, fields NAFAB & SAFAB)
- All transactions are processed in sequential order



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Old Depreciation Calculation



The screenshot shows the 'Planned values Book depreciation' table in SAP. A red box highlights the 'Ordinary deprec.' row, which shows a value of 72.92 USD. Another red box highlights the 'Transactions' table below, with a red box around the 'Ord. dep.' column, showing a value of 72.92 USD for the last transaction. A text box with the text '1 depreciation amount for each transaction' points to the highlighted 'Ord. dep.' value in the 'Planned values' table.

Planned values	Posted values	Comparisons	Parameters
Planned values Book depreciation			
	Fiscal year start	Change	Year-end Crcy
APC transactions	86,687.92	86,687.92	USD
Investment support			USD
Acquisition value	86,687.92	86,687.92	USD
Ordinary deprec.	72.92	72.92	USD
Unplanned dep.			USD



Transactions			
AsstVal date	Amount	TTY	Transaction type name
12/31/1996	16,732.83	336	Acquis. transfer: Curr-yr acq. from inv. measure
12/31/1996	12,955.09	336	Acquis. transfer: Curr-yr acq. from inv. measure
12/31/1996	35,500.00	331	Acquis. transfer: Prior-yr acq. from inv. measure
12/31/1996	21,500.00	331	Acquis. transfer: Prior-yr acq. from inv. measure
			Ord. dep.
			72.92 USD



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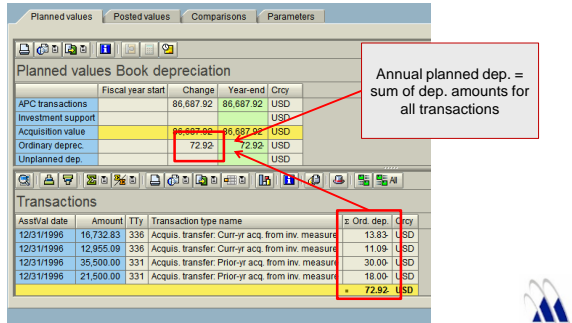
Old Depreciation Calculation

- Annual depreciation = sum of the depreciation amounts calculated for each transaction
- Planned depreciation always based on annual values

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Old Depreciation Calculation



Annual planned dep. = sum of dep. amounts for all transactions

Planned values	Posted values	Comparisons	Parameters
Planned values Book depreciation			
APC transactions	Fiscal year start	Change	Year-end Crncy
Investment support		86,687.92	86,687.92 USD
Acquisition value		86,687.92	86,687.92 USD
Ordinary deprec.		72.92	72.92 USD
Unplanned dep.			USD

Transactions					
Assfal date	Amount	Tty	Transaction type name	e. Ord. dep.	Crncy
12/31/1996	16,732.83	336	Acquis. transfer: Curr-yr acq. from inv. measure	13.83	USD
12/31/1996	12,955.09	336	Acquis. transfer: Curr-yr acq. from inv. measure	11.09	USD
12/31/1996	35,500.00	331	Acquis. transfer: Prior-yr acq. from inv. measure	30.00	USD
12/31/1996	21,500.00	331	Acquis. transfer: Prior-yr acq. from inv. measure	18.00	USD
				72.92	USD




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Old Depreciation Calculation - Example

Example:

- Asset cost: \$12,000
- Useful life: 10 years
- Straight-line depreciation (APC/UL)
- Fiscal Year = Calendar Year
- Pro-rata period control




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Summary

- Remember that SAP can calculate all US depreciation (book and tax) just fine
- Depreciation amounts in SAP are a direct result of configuration settings (depreciation keys, period controls), assigned depreciation parameters and posted asset values



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Summary



- The Display Depreciation Calculation function in the Asset Explorer will tell you exactly how SAP arrived at a certain depreciation amount

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Q&A

- Comments & Questions
- How to contact us:
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