

1566382 - Japan: Corporate Tax Law 2011 Revision (FIAA)

Version 20 Validity: 26.11.2012 - active

Language English (Master)

Header Data

Released On 26.11.2012 12:09:04 Release Status Released for Customer

Component XX-CSC-JP-FIAA Asset Accounting

Other Components FI-AA Asset Accounting **Priority** Correction with high priority

Category Legal change

Symptom

There is a legal change in the Corporate Tax Law 2011 for Japan. (Due to the earthquake on March 11th, 2011, the revised rule will be effective on April 1st, 2012.)

Regarding "Declining-Balance Method" for assets acquired after April 1st 2012, the depreciation rate will be changed to "Straight-Line Method (1/Useful Life)" * 2.0. Not only the depreciation rate of "Declining-Balance Method" but also the revised depreciation rate and the guarantee rate have been revised.

Reference:

http://www.cao.go.jp/zei-cho/news/2010/__icsFiles/afieldfile/2010/12/25/221216taikou.pdf

(P. 80)

20120125g000160091. pdf 20120125ğ000160092. pdf

Other Terms

Corporate tax law revision Japan, Asset Accounting, Depreciation Calculation, Declining-Balance Method, HEISEI23, 2011, HEISEI24, 2012

Reason and Prerequisites

Legal Change 2011:

Revision of Corporate Tax Law 2011 affecting the depreciation calculation.

Solution

Change History (dd/mm/yyyy):

Depending on the value(BASRND) and the method(METRND) used for the determination of the changeover value, the rounding conditions have been modified for changeover logic Z taking into account all the parameters (value, method, currency) and is available in the latest attachment Changeover_code_files_v04. ZIP.

The prerequisite that this changeover logic returns the rounding result as we expect is that, the rounded amount (T093B-BASRND) is not explicitly selected, or "Automatically calculated depreciation"

is explicitly selected.

If "NBV" is explicitly selected as the rounded amount, only in case that the rounding method is "Arithmetic Rounding", the rounding result becomes expected.

In the changeover logic Z for new depreciation engine, logic is added to avoid system error when calculating the Net Book Value percentage.

27. 08. 2012

In the changeover logic Z for new depreciation engine, the type of the net book value percentage is changed from type ANLBZW-BZWPRZ' to type 'f' to avoid any system error. The modified code is included in the "Changeover_code_files_Z_v04.zip" to avoid any system error. The modified code is included

Regarding the changeover logic Z for new depreciation engine, it was found that the parameter exported to METHOD cl_faa_ee=>_correct_rounding was wrong. We should export l_abs_dbm_calc and l_abs_guar_calc, however, before the correction, l_abs_dbm_calc and l_abs_dbm_calc were exported. The modified code is included in the "Changeover_code_files_Z_v04.zip".

Regarding the change-over logic Z for new depreciation engine, the short dump "GETWA_NOT_ASSIGNED" occurs if you do not define the rounding method for "Automatically calculated depreciation" (T093B-BASRND is not 1). If you define the rounding method for "Net book value" (T093B-BASRND is 0.), both

the depreciation amount before adjustment and the guaranteed depreciation amount do not go through the rounding process of depreciation. The modified code is included in the file "Changeover_code_files_ $Z_v03.zip$ ".

Directly updated and solved the syntax error which is included in NDE_Active_DEFINE_CHANGEOVER_YR_Z_20120402.txt.

For the rounding issue described in "caution", the modified code is included in the file "Changeover_code_files_ $Z_v02.\ zip$ "

Initially release for customers

Solution:

The ppt material is available via SAP Service Market Place. https://service.sap.com/jp-financials Documentation(Customer/Partner) Legal Change 2011

http://service.sap.com/~form/sapnet?_SHORTKEY=01100035870000736411&_SCENARI0=0110003587000000112&_0BJECT=011000358700000181462012J

http://service.sap.com/~form/sapnet?_SHORTKEY=01100035870000736411&_SCENARIO=0110003587000000112&_OBJECT=011000358700000181282012E

CAUTION:

The new columns and rates for table TO97JP will be available as part of the Support Package.

For immediate use of these values, please use the attachment "Z_TO97JP_update_2011" attached to this note. This report uses the rates given in the file 'Rates_for_Legal_Change2011.zip' which is attached to this note. After activation and execution of the report, the table TO97JP will contain the new values.

I) SAP ERP 6.0 (New Depreciation Engine)

Ia) Depreciation Rates, Table T097JP Extension

The following rates, which are for assets acquired after April 01, 2012, are newly defined by law.

- 200% DBM rate
- Revised depreciation rate for 200% DBM
- Guarantee depreciation rate for 200% DBM

You have two possibilities to extend the content of the system table T097JP.

- Updating the SP level of your SAP system
 Follow the manual steps provided in the attchment 'T079JP_enhancements.pdf'.

The table T097JP has been extended with three new data fields:

Field	Key Init Data Element Data Typ Len Dec					
PROZ_TW3 PROZ_REV3 PROZ_GR3						
Field	Description					
PROZ_TW3 PROZ_REV3 PROZ_GR3	Declined Balance Method Rate for 200% DBM Revised Depreciation Rate for 200% DBM Guarantee Rate for 200% DBM					

After enhancing the table, you should also enter the new rates into the table.

Ib) Implement Customer-Specific BAdI for Change-over Method "Z"

Implement the change-over method "Z" used for the first depreciation phase in the depreciation keys. The method should be defined in customer namespace by using the BAdI builder (transaction SE19):

-BAdI definition: FAA_DC_CUSTOMER -Method: DEFINE_CHANGEOVER_YR

If you already use the change-over method "Z", you should enhance the change-over method "X" to cover 200% DBM as well.

The coding for this method is attached to this note as a * .zip archive "Changeover_code_files_Z_vxx.zip" (xx means version.). After the creation of the BAdl's implementations, activate the methods and the implementations.

 * If you have to implement the change-over logic for 200% DBM into the change-over logic X, you can use, for example, <code><LS_HLPSEG>-DEPR_KEY</code> (depreciation key) as the condition.

The method is created for deciding the change-over year and NBV %.

o At the fiscal year-start, if 200% DBM depreciation amount is less than the guarantee depreciation

amount, this fiscal year is the change-over year.
o From the change-over year, a switch to the second phase of depreciation key is performed.
o NBV% which is necessary for the second phase is calculated. The formula is "(NBV at year-start + Revaluation (Impairment) at year-start) / APC at year-start".

When the change-over year becomes open by the transaction AJRW, the change-over year and NBV% are automatically set in the asset master record, ANLB-UMJAR and ANLBZW, respectively. Once they are set in the asset master record, they will not be automatically removed, therefore if you need to remove them, you should manually remove them.

Ic) New Depreciation Key - In case that you use Country-Specific Depreciation Methods

new depreciation key will be delivered with the default chart of depreciation OJP in the client 000. This will be delivered with a support package. To create the new depreciation key manually, follow the steps described below.

1)Create two country-specific base methods JPD1 and JPS1, which use the country-specific depreciation methods 7 and 8, respectively,

Depr.	Description	Dep. Method T090NR-AFAMET
JPD1	Ordinary: JAPAN Decl.Bal.met. from 01.04.2012	7 Country-speficic method
JPS1	Ordinary: JAPAN Str.Line met.from 01.04.2012	8 Country-specific method

- and set the indicators as follows:
 Dep.after plnd.lide end Yes
 Dedp.below NBValue zero No

 - Curb No

2) Create a depreciation key that uses the base methods above:

DEP.KEY DESCRIPTION **DB11** Declining-Balance Method Japan from 01.04.2012

The customizing setting for these keys is the following:

Dep. K	SVK Base /Dep	Meth. .Meth.	Phase	DBM PCM ML	M BVK 	PER RL	Red CoM *
DB11	JPD1 JPS1	/ 7 / 8	1 2	001 006 130 001 006 128	24 G1	0	Z

* SVK - Scrap Value Key, DBM = Declining-Balance Method, PCM = Period-Control Method, MLM = Multi-Level Method, BVK = Base Value Key, PER-Percentage, RL - Remaining Life, Red - Reduction %, CoM -Change-over Method

The multi-level method 130 is defined like below.

Acq.yr	Years	Per	Base Val.	Percent	Rem. life	Reduct.
9999	999	12	24	0		0

The multi-level method 128 is defined like below.

4	Acq.yr	Years	Per	Base Val.	Percent	Rem. life	Reduct.
Ī	9999	999	12	G1	0		0

Here, the example of the period control method is 006. The period control method 006 uses the following period controls for posting transactions with the attributes "Acquisition", "Additional Acquisition", "Retirement", "Transfers", and "Revaluation" (Impairment)":

Add Ret Trn Rev

You should define and use the period control method based on your requirement.

Also, "O Consideration is controlled by cutoff value key" is assigned to "Scrap value" of the 1st phase and the $2nd\ phase$.

- 3) Apply code corrections from the instructions below
- Id) New Depreciation Key In case that you do NOT USE Country-Specific Depreciation Methods

In case that you do NOT USE country-specific depreciation method, you should use the depreciation method P (Percentage stated) which needs explicit depreciation rates in multi-level methods. By using the example (Here, useful life is 10 years), how to newly create 200% DBM depreciation keys is

1) For each useful life, create new multi-level methods for the first phase to have explicit 200% DBM rate

For example, in case of 10 years, it is defined like below.

Acq.yr	Years	Per	Base Val.	Percent	Rem. life	Reduct.
9999	999	12	24	20.0000		0

2)For each useful life, create new multi-level methods for the second phase to have explicit revised rate for 200% DBM

For example, in case of 10 years, it is defined like below.

Acq.yr	Years	Per	Base Val.	Percent	Rem. life	Reduct.
9999	999	12	28	25.0000		0

* Either base value 28 or G1 can be used.

3) Create depreciation keys

DESCRIPTION DEP.KEY **XB10** DBM 10 years Japan from 01.04.2012

The customizing setting for these keys is the following:

```
|DBM|PCM|MLM|BVK|PER|RL |Red|CoM|*
       |SVK|Base Meth.
                           l Phase
Dep. K
            /Dep.Meth.
                                       - 1
                                           -
                                                     1
                                                          1
                                                                         1
                                  |001|006| **| **| **| **
|001|006|***|***|***|***
|XB10
            |0014 / P
                              1
                          |0014 / P
                            2
```

* SVK - Scrap Value Key, DBM = Declining-Balance Method, PCM = Period-Control Method, MLM = Multi-Level Method, BVK = Base Value Key, PER-Percentage, RL - Remaining Life, Red - Reduction %, CoM -Change-over Method

** You should set the one defined in the step Id)-1).
*** You should set the one defined in the step Id)-2).

the example of the period control method is 006. The period control method 006 uses the following period controls for posting transactions with the attributes "Acquisition", "Additional Acquisition", "Retirement", "Transfers", and "Revaluation" (Impairment)

bbA Ret Trn Rev Acq 01 01 11 11 11

You should define and use the period control method based on your requirement.

Also, "O Consideration is controlled by cutoff value key" is assigned to "Scrap value" of the 1st phase and the 2nd phase.

II) SAP R/3 4.6C, SAP R/3 Enterprise, SAP ERP 5.0 (Old Depreciation Calculation Program)

IIa) Implement Customer-Specific Project for Change-over Method "Z"

Implement the change-over method "Z" used for the first depreciation phase in the depreciation keys. The project should be defined in customer namespace by using the customer exit (transaction CMOD):

- -Enhancement: AFAR0003 External changeover method
- -Function Exit: EXIT_SAPLAFAR_003

-Include: ZXAFAU03

If you already use the change-over method "Z", you should enhance the change-over method "X" to cover 200% DBM as well.

The coding for this function exit is attached to this note as a *.zip archive "Changeover_code_files_ Z_vxx .zip"(xx means version.). After the creation of the project and the function, activate the project and the function.

* If you have to implement the change-over logic for 200% DBM into the change-over logic X, you can use, for example, i_anlb-afasl (depreciation key) as the condition.

The function is created for deciding the change-over year and NBV %.

At the fiscal year-start, if 200% DBM depreciation amount is less than the guarantee depreciation amount, this fiscal year is the change-over year.
 From the change-over year, a switch to the second phase of depreciation key is performed.
 NBV% which is necessary for the second phase is calculated. The formula is "(NBV at year-start + Revaluation (Impairment) at year-start) / APC at year-start".

When the change-over year becomes open by the transaction AJRW, the change-over year and NBV% are automatically set in the asset master record, ANLB-UMJAR and ANLBZW, respectively. Once they are set

in the asset master record, they will not be automatically removed, therefore if you need to remove it, you should manually remove them.

IIb) New Depreciation Keys - Use the depreciation method P (Percentage stated)

You should use the depreciation method P (Percentage stated) which needs explicit depreciation rates in multi-level methods. By using the example (Here, useful life is 10 years), how to newly create 200% DBM depreciation keys.

1)For each useful life, create new multi-level methods for the first phase to have explicit 200% DBM rate

For example, in case of 10 years, it is defined like below.

Acq.yr Year 	s Per	Base Val.	Percent	Rem. life	Reduct.
9999 999	12	24 	20.0000		0

2)For each useful life, create new multi-level methods for the second phase to have explicit revised rate for 200% DBM

For example, in case of 10 years, it is defined like below.

Acq.yr 	Years	Per	Base Val.	Percent	Rem. life	Reduct.
9999	999	12	28	25.0000		0

3) Create depreciation keys

DEP.KEY DESCRIPTION DBM 10 years Japan from 01.04.2012

The customizing setting for these keys is the following:

Dep.K SVK Base Meth. /Dep.Meth.	Phase	DBM PCM MLM BVK PER RL Red CoM *
XB10 0014 / P 0014 / P	1 2	001 006 ** ** ** ** Z 001 006 *** *** ***

* SVK - Scrap Value Key, DBM = Declining-Balance Method, PCM = Period-Control Method, MLM = Multi-Level Method, BVK = Base Value Key, PER-Percentage, RL - Remaining Life, Red - Reduction %, CoM - Change-over Method

** You should set the one defined in the step IIb)-1).
*** You should set the one defined in the step IIb)-2).

Here, the example of the period control method is 006. The period control method 006 uses the following period controls for posting transactions with the attributes "Acquisition", "Additional Acquisition", "Retirement", "Transfers", and "Revaluation (Impairment)":

Acq Add Ret Trn Rev 01 01 11 11 11

You should define and use the period control method based on your requirement.

Also, "O Consideration is controlled by cutoff value key" is assigned to "Scrap value" of the 1st phase and the 2nd phase.

Validity

Software Component	From Rel.	To Rel.	And Subsequent
SAP_APPL	46C	46C	
	470	470	
	500	500	
	600	600	
	602	602	
	603	603	
	604	604	
	605	605	
	606	606	
EA-APPL	600	600	
	602	602	
	603	603	
	604	604	

605 605 🗹

Correction Instructions

Correction Instructions							
Software Component	Valid from	Valid to	Number				
EA-APPL	600	605	968862				

Support Packages & Patches

Support Packages				
Software Component	Release	Support Package		
SAP_APPL	600	SAPKH60020		
	600	SAPKH60022		
	602	SAPKH60210		
	602	SAPKH60212		
	603	SAPKH60309		
	603	SAPKH60311		
	604	SAPKH60412		
	604	SAPKH60410		
	605	SAPKH60504		
	605	SAPKH60509		
	605	SAPKH60512		
	606	SAPKH60604		
EA-APPL	600	SAPKGPAD22		
	602	SAPK-60210INEAAPPL		
	603	SAPK-60309INEAAPPL		
	604	SAPK-60410INEAAPPL		
	605	SAPK-60505INEAAPPL		

References

This document refers to:

GVD	Notes
JAL	140162

1835248	FAQ: Remark on the changes affecting the result of Depr.Calc
1705691	JP: Incorrect depreciation when asset useful life < 1 year
1673771	JP: Changeover year incorrcetly set due to rounding issue.
1565855	Shortdump COMPUTE_FLOAT_ZERODIVIDE in AJRW
1549398	JP : Changeover not calculated for Post-Capitalized assets
1541117	Japan: Corporate Tax Law 2011 Revision (FIAA)
1527567	JP: Rounding issue affects Changeover for assets
1093591	Incorrect rounding for a currency without decimal places
1078301	JAPAN: Base Value Percentage in Tax Law Revision 2007
1077695	Technical changes for processing the table ANLBZW
1057539	JAPAN: Corporate Tax Law 2007 Revision (FIAA)

This document is referenced by:

SAP	Notes	(10)
JAL	140162	1101

SAP Notes (10)		
1565855	Shortdump COMPUTE_FLOAT_ZERODIVIDE in AJRW	
1835248	FAQ: Remark on the changes affecting the result of Depr.Calc	
1705691	JP: Incorrect depreciation when asset useful life < 1 year	
1077695	Technical changes for processing the table ANLBZW	
1078301	JAPAN: Base Value Percentage in Tax Law Revision 2007	
1527567	JP: Rounding issue affects Changeover for assets	
1673771	JP: Changeover year incorrcetly set due to rounding issue.	
1549398	JP : Changeover not calculated for Post-Capitalized assets	
1057539	JAPAN: Corporate Tax Law 2007 Revision (FIAA)	
1541117	Japan: Corporate Tax Law 2011 Revision (FIAA)	

Attachments

File Name	File Size (KB)	Mime Type
T097JP_enhancements_JA.pdf	493	application/pdf
20120125g000160092.PDF	28	application/pdf
Z_T097JP_update_2011.zip	10	application/x-zip-compressed
v3_EN_Rounding.pdf	564	application/pdf
T097JP_enhancements.pdf	473	application/pdf
Rates_for_Legal_Change2011.zip	7	application/x-zip-compressed
v3_JA_Rounding.pdf	602	application/pdf
Changeover_code_files_Z_v05.zip	14	application/x-zip-compressed
20120125g000160091.PDF	27	application/pdf