

ZCO_COPA_D43 - Create and Run Cycle for D43

Tasks to be completed when documenting an SAP Transaction, Report or Message code.

1. Title of the page = SAP Transaction code, SAP Report or SAP Message

2. Add the following Labels, respectively:

- SAP Transaction => "sap_transaction", Transaction code "xxxx"
- SAP Report => "sap_report"
- SAP Message => "sap_msg"

3. On the left section, describe the steps. On the right section, insert respective print screens and additional guidelines, if needed (e.g. Main selections of the transaction...)

STEP 1

Use transaction code: ZCO_COPA_D43



ZCO_COPA_D43 - Create and Run Cycle for D43: Initial Screen



This program is only able to calculate the correct material /plant allocation to add in the cycle, for the previous month (not possible for 2 months ago, or more, or even for the current month). So, in the 1st and 2nd step, there is no option to select the month as it will be automatic.

STEP 2

This program is used to create /generate the COPA assessment cycle to allocate the amounts to value field D43.

In order to fulfill this requirement, the program has been classified into 3 parts like below:

1. Tracing Factor Table Update
2. Basic Set Generation
3. D43 Cycle Creation

Cycle cccc43 in PF1 - Allocation in PL

D43 Cycle Creation Steps

☒ Tracing Factor Table Update
☐ Basic Set Generation
☐ D43 Cycle Creation

STEP 3

First Step - Tracing Factor Table Update

By this step, all the relevant data for creating the cycle with receiving tracing factors would be fetched from KSB1 report and stored in the table: ZCO_COPA_D43_TAB.

Selection Parameters:

1. Select "Tracing Factor Table Update" button
2. Controlling area: defaults with CHEF
3. Company code: Can give individual company code or multiple company codes or range
4. Cost Center: Can give individual cost center or multiple cost centers or range
5. Test Mode check box: By selecting Test mode, can see the results in the output but do not update the table: ZCO_COPA_D43_TAB

Cycle cccc43 in PF1 - Allocation in PL

D43 Cycle Creation Steps

☒ Tracing Factor Table Update **1**
☐ Basic Set Generation
☐ D43 Cycle Creation

Selection parameters

Controlling Area: **2**
 Company Code: **3** to
 Cost Center: **4** to
☒ Test mode **5**

i At selection parameters, either company code or cost center field are mandatory. If the c.code is selected, the program will pick automatically all CC XX843* from the selected company.

STEP 4

Output results:

- When Test mode is selected: Results can be seen like below, but would not update the table

Cycle cccc43 in PF1 - Allocation in PL

Client	CO Area	CoCode	Period	Fiscal Yr	Cost Center	Material	Plant	ValCOArCur	ValObjCur	Obj Cur.	Time Stamp	SAP System
120	CHEF	5835	8	2020	8784300049	105533	6006	100,00	100,00	EUR	20.200.918.105.030	INT1303
120	CHEF	5835	8	2020	8784300042	105533	6006	435,00	435,00	EUR	20.200.918.105.030	INT1303
120	CHEF	5835	8	2020	8784300042	43980	SMF	200,00	200,00	EUR	20.200.918.105.030	INT1303
120	CHEF	5835	8	2020	8784300010	105533	6006	1.120,00	1.120,00	EUR	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M84300025	64434	5007	47,25	1.111,00	MMN	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M84300047	64434	5007	47,25	1.111,00	MMN	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M84300025	190209	5010	6,38	150,00	MMN	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M84300047	190209	5010	6,38	150,00	MMN	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M84300025	190727	5012	14,46	340,00	MMN	20.200.918.105.030	INT1303
120	CHEF	5726	8	2020	4M843000CC	190727	5012	14,46	340,00	MMN	20.200.918.105.030	INT1303

- When Test mode is not selected

Cycle cccc43 in PF1 - Allocation in PL

Client	CO Area	CoCode	Period	Fiscal Yr	Cost Center	Material	Plant	ValCOA/Cur	Val/Obj/Cur	Obj	Curr.	Time Stamp	SAP System
020	CHEF	5835	8	2020	8784300049	105533	6006	100,00	100,00	EUR		20.200.918.110.022	PUT1303
020	CHEF	5835	8	2020	8784300042	105533	6006	435,00	435,00	EUR		20.200.918.110.022	PUT1303
020	CHEF	5835	8	2020	8784300042	43980	SMF	200,00	200,00	EUR		20.200.918.110.022	PUT1303
020	CHEF	5835	8	2020	8784300010	105533	6006	1.120,00	1.120,00	EUR		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M84300025	64434	5007	47,25	1.111,00	MXN		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M84300047	64434	5007	47,25	1.111,00	MXN		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M84300025	199029	5010	6,38	150,00	MXN		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M84300047	199029	5010	6,38	150,00	MXN		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M84300025	198727	5012	14,46	340,00	MXN		20.200.918.110.022	PUT1303
020	CHEF	5726	8	2020	4M843000CC	198727	5012	14,46	340,00	MXN		20.200.918.110.022	PUT1303

- The results update into the table

Data Browser: Table ZCO_COPA_D43_TAB Select Entries 10

B	CL	COAR	CoCode	Per	Year	Cost Ctr	Material	PRT	ValCOA/Anz	Crzy Value/Obj	Crzy Obj	Time Stamp	SAP System
020	CHEF	5726	008	2020	4M84300025	000000000000064434	5007		47,25	1.111,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5726	008	2020	4M84300025	000000000000198727	5012		14,46	340,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5726	008	2020	4M84300025	000000000000199029	5010		6,38	150,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5726	008	2020	4M84300047	000000000000064434	5007		47,25	1.111,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5726	008	2020	4M84300047	000000000000199029	5010		6,38	150,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5726	008	2020	4M843000CC	000000000000198727	5012		14,46	340,00	MXN	20.200.918.110.022	PUT1303
020	CHEF	5835	008	2020	8784300010	000000000000105533	6006		1.120,00	1.120,00	EUR	20.200.918.110.022	PUT1303
020	CHEF	5835	008	2020	8784300042	00000000000043980	SMF		200,00	200,00	EUR	20.200.918.110.022	PUT1303
020	CHEF	5835	008	2020	8784300049	000000000000105533	6006		435,00	435,00	EUR	20.200.918.110.022	PUT1303
020	CHEF	5835	008	2020	8784300049	000000000000105533	6006		100,00	100,00	EUR	20.200.918.110.022	PUT1303



This program will pick the data from KSB1 for every cost center and subtotal at Plant and Material combination in order to update receiver tracing factors in the table - Note: if the line items doesn't have plant and material, it will be ignored and can be a justification in case of deltas

STEP 5

Second Step - Basic Set Generation

By this step, the program creates separate sets for materials and plants of each cost center, based on the list of materials or plants found in KSB1 report for the period.

Selection Parameters:

1. Select "Basic Set Generation" button
2. Controlling area: defaults with CHEF
3. Company code: Can give individual company code or multiple company codes or range
4. Cost Center: Can give individual cost center or multiple cost centers or range
5. Test Mode check box: By selecting Test mode, can see the results in the output but do not update the SETs (display using GS03)

Cycle cccc43 in PF1 - Allocation in PL

D43 Cycle Creation Steps

☐ Tracing Factor Table Update

☒ Basic Set Generation **1**

☐ D43 Cycle Creation

Selection parameters

Controlling Area **CHEF** **2**

Company Code **3** to

Cost Center **4** to

☒ Test mode **5**

STEP 6

Output results:

- When Test mode is selected: Results can be seen like below, but would not update the SETs



Observed the message as Value can be added in set, as it is test run only.

Field	SET Name	
Product	Z1KD43P4M843000CC	Z1KD43P+XXXX XXXX is cost center
Plant	Z1KD43W4M843000CC	Z1KD43W+XXXX XXXX is cost center

Cycle cccc43 in PF1 - Allocation in PL

Table Name	Field	Set Name	Description	From value	Message Text
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000064434	Value can be added in set
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000198727	Value can be added in set
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000199029	Value can be added in set
CE7FO01	ARTNR	Z1KD43P4M84300047	Materials group for 4M84300047	000000000000064434	Value can be added in set
CE7FO01	ARTNR	Z1KD43P4M84300047	Materials group for 4M84300047	000000000000199029	Value can be added in set
CE7FO01	ARTNR	Z1KD43P4M843000CC	Materials group for 4M843000CC	000000000000198727	Value can be added in set
CE7FO01	ARTNR	Z1KD43P8784300010	Materials group for 8784300010	000000000000105533	Value can be added in set
CE7FO01	ARTNR	Z1KD43P8784300042	Materials group for 8784300042	000000000000043980	Value can be added in set
CE7FO01	ARTNR	Z1KD43P8784300042	Materials group for 8784300042	000000000000105533	Value can be added in set
CE7FO01	ARTNR	Z1KD43P8784300049	Materials group for 8784300049	000000000000105533	Value can be added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5007	Value can be added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5010	Value can be added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5012	Value can be added in set
CE7FO01	WERKS	Z1KD43W4M84300047	Plants group for 4M84300047	5007	Value can be added in set
CE7FO01	WERKS	Z1KD43W4M843000CC	Plants group for 4M843000CC	5010	Value can be added in set
CE7FO01	WERKS	Z1KD43W8784300010	Plants group for 8784300010	6006	Value can be added in set
CE7FO01	WERKS	Z1KD43W8784300042	Plants group for 8784300042	6006	Value can be added in set
CE7FO01	WERKS	Z1KD43W8784300042	Plants group for 8784300042	SMF	Value can be added in set
CE7FO01	WERKS	Z1KD43W8784300049	Plants group for 8784300049	6006	Value can be added in set

- When Test mode is not selected



Observed the message as Value successfully added in set, as it is real run only. These SETs can be checked in GS03:

Display Set: Values



Basic set

Z1KD43P4M84300025

Materials group for 4M84300025

Table

CE7FO01

Slr ERP Operating co

Field name

ARTNR

Product number



No.

From value

To value

Short text of set line

For S

001 64434

002 198727

003 199029

cc43 in PF1 - Allocation in PL

Table Name	Field	Set Name	Description	From value	Message Text
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000064434	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000198727	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P4M84300025	Materials group for 4M84300025	000000000000199029	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P4M84300047	Materials group for 4M84300047	000000000000064434	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P4M84300047	Materials group for 4M84300047	000000000000199029	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P4M843000CC	Materials group for 4M843000CC	000000000000198727	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P8784300010	Materials group for 8784300010	000000000000105533	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P8784300042	Materials group for 8784300042	000000000000043980	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P8784300042	Materials group for 8784300042	000000000000105533	Value successfully added in set
CE7FO01	ARTNR	Z1KD43P8784300049	Materials group for 8784300049	000000000000105533	Value successfully added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5007	Value successfully added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5010	Value successfully added in set
CE7FO01	WERKS	Z1KD43W4M84300025	Plants group for 4M84300025	5012	Value successfully added in set
CE7FO01	WERKS	Z1KD43W4M84300047	Plants group for 4M84300047	5007	Value successfully added in set
CE7FO01	WERKS	Z1KD43W4M843000CC	Plants group for 4M843000CC	5010	Value successfully added in set
CE7FO01	WERKS	Z1KD43W8784300010	Plants group for 8784300010	6006	Value successfully added in set
CE7FO01	WERKS	Z1KD43W8784300042	Plants group for 8784300042	6006	Value successfully added in set
CE7FO01	WERKS	Z1KD43W8784300042	Plants group for 8784300042	SMF	Value successfully added in set
CE7FO01	WERKS	Z1KD43W8784300049	Plants group for 8784300049	6006	Value successfully added in set

STEP 7

Third Step - D43 Cycle Creation

By this step, it creates allocation cycles. One cycle for each company code and based on the number sender cost centers in the company code, those many segments would be created.

Table: ZCO_COPA_D43_TAB and SETs created are the source for cycle creation.

This can be run in two ways, one by creating a Batch Input session and another by call transaction method.

Selection Parameters:

- Select "D43 Cycle Generation" button

2. Company code: If not entered, the program checks the company codes from table ZCO_COPA_D43_TAB. It would be better to run this step, each company code wise.
3. Posting period: This is by default would be period M.
4. Assessment CElem: The same assessment cost element will be passed into cycle segments. It is better to run all the company codes which use the same assessment CE. If no requested exception from the controllers, should be CE 9802000001.
5. Cost Center: If not given, then system checks the company codes, if not given company codes, system will fetch all the company codes and cost centers from the table: ZCO_COPA_D43_TAB
6. Cost Element: All CE to be read on the cost center.
7. OPTION1: Batch Input details (Generate Session): By this system creates a Batch input session, which has to be executed by transaction SM35. System creates session name as ZD43DDMMYYYY. This DD and MM would be the 1st day of period M.
8. OPTION2: Batch Input details (Call transaction): By this system directly calls the transaction code and creates the cycles. In case of any errors, the program creates an error session with the name mentioned here.

Cycle cccc43 in PF1 - Allocation in PL

D43 Cycle Creation Steps

☐ Tracing Factor Table Update
☐ Basic Set Generation
☒ D43 Cycle Creation **1**

Selection parameters

Company Code to
 Posting period **3**
 Assessment CElem **4**
 Cost Center **5** to
 Cost Element **6** to

Batch Input details

☒ Generate session **7** ☐ Call transaction **8**

Session name Run mode
 User Update session
 Keep session ☐ Error sessn
 Lock date User
 Keep session ☐
 Lock date

STEP 8

Output results:

Once executed the session, then Assessment cycles are seen like below:

- Cycle code is CCCC43
- Start date is the 1st day of period M
- Text is D43 + company code

CO-PA Display Actual Assessment Cycle: Header Data

First segment

Operating concern Slv ERP Operating concern Status

Cycle

Start Date To

Text

Indicators

☒ Sender Select. Type
☐ Aggreg. Tracing Factor

Preset Selection Criteria

CO Area ERP SOLVAY
 Type of CO-PA Costing-Based Profitability An

- Segment name: cccc43(cycle code)+01 (numbering for each segment)
- Segment description: As program creates each segment for one cost center, that cost center code is seen as segment description
- Assessment cost element: which is mentioned in the selection parameters
- Value field: VVD43 always
- Receiver tracing factor rule: Fixed amount (as receivers will be assessed either with positive or negative amount)

CO-PA Display Actual Assessment Cycle: Segment

Operating concern: F001 Slv ERP Operating concern: D435726

Cycle: 572643

Segment Name: 57264301 4M84300025 ☐ Lock indicator

Segment Header Senders/Receivers Receiver Tracing Factor

Assessment CElem: 9802000001 CDV

Value Field All: VVD43 D43 Other Var NA

Alloc. structure: ☐

PA transfer struct.: ☐

Sender values

Rule: 1 Posted amounts

Share in %: 100,00

Receiver tracing factor

Rule: 2 Fixed amounts

- Cost Center: This is the sender cost center
- Sender Cost element: Which are passed in the selection parameters
- Receiver (product): Product group/set created for the sender cost center
- Receiver (Plant): Plant group /set created for the sender cost center

CO-PA Display Actual Assessment Cycle: Segment

Operating concern: F001 Slv ERP Operating concern: D435726

Cycle: 572643

Segment Name: 57264301 4M84300025 ☐ Lock indicator

Segment Header Senders/Receivers Receiver Tracing Factor

From To Group

Sender

Cost Center: 4M84300025

Cost Element: 6000000000 9ZZZZZZZZZ

Receiver

Product: ☐ ☐ Z1KD43P4M84

Shp.Cond.: ☐ ☐ ☐

Distr. Channel: ☐ ☐ ☐

Plant: ☐ ☐ Z1KD43W4M84

Activity1(mkt): ☐ ☐ ☐

- Observe the receiver tracing factors.
- Receiver currency: Company code currency
- Receiver combinations: from table: ZCO_COPA_D43_TAB, amounts (either positive or negative) only passed to the combinations identified in the table, otherwise, program passes zero.

CO-PA Display Actual Assessment Cycle: Segment

Operating concern: F001 Slv ERP Operating concern: D435726

Cycle: 572643

Segment Name: 57264301 4M84300025 ☐ Lock indicator

Segment Header Senders/Receivers Receiver Tracing Factor

Find Receiver

Receivers

Currency: 000

Product	Plant	Amount
64434	5007	1.111,00
64434	5010	0,00
64434	5012	0,00
198727	5007	0,00
198727	5010	0,00
198727	5012	340,00
199029	5007	0,00
199029	5010	150,00
199029	5012	0,00

- Cycle Run Group: the company code

CO-PA Display Actual Assessment Cycle: Segment

Operating concern: F001 SIV ERP Operating concern: D435726

Cycle: 572643

Segment Name: 57264301 Lock indicator: ☐

DF1(4)/020 Determine Cycle Run Group

Rece	Curre
Cycle run group	5726

STEP 9

Run the cycle

After the cycle is created it should be run in the same way as all other COPA cycles, in transaction KEU5 (important to select always the cycle with Start Date on the closing month, otherwise the CC cc843* will remain unbalanced).

STEP 10

Corrections and Re-runs

It's not possible to make any manual change in the tables automatic generated via this transaction.

If, by any reason, it's necessary to make any update to the cycle, it should be done via the usual transaction KEU2.

If it's necessary to rerun the cycle it's important to check the necessity of re-running all steps or only the last one: in a general way, the need to re-run the cycle is happening because there were some additional postings on materials. For these cases (including corrections on prices or quantities) it's necessary to repeat all steps, as the allocation of the amount to each material will change. It's also important to know that:

- If by these correction postings, program is expected to add any new segments, it is possible. (program does the changes to cycle-segment)
- If by these correction postings, program is expected to add/delete the receiver combinations or change the receiver amounts, it is also possible.
- If by these correction postings, program is expected to lock/delete a segment/cycle, it is not possible. (it has to be manually locked the segment, otherwise the CC will not be balanced)