

# 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

#### 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
CHEF **2**

Company Code
**3**
to

Cost Center
**4**
to

☒ Test mode **5**

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  | 198727   | 5012  | 14,46      | 340,00    | MMN      | 20.200.918.105.030 | INT1303    |
| 120    | CHEF    | 5726   | 8      | 2020      | 4M843000CC  | 198727   | 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<br>XXXX is cost center |
| Plant   | Z1KD43W4M843000CC | Z1KD43W+XXXX<br>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 | 0000000000000064434 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300025 | Materials group for 4M84300025 | 0000000000000198727 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300025 | Materials group for 4M84300025 | 0000000000000199029 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300047 | Materials group for 4M84300047 | 0000000000000064434 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300047 | Materials group for 4M84300047 | 0000000000000199029 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P4M843000CC | Materials group for 4M843000CC | 0000000000000198727 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300010 | Materials group for 8784300010 | 0000000000000105533 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300042 | Materials group for 8784300042 | 0000000000000043980 | Value can be added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300049 | Materials group for 8784300049 | 0000000000000105533 | 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 | 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           | Slv 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 | 0000000000000064434 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300025 | Materials group for 4M84300025 | 0000000000000198727 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300025 | Materials group for 4M84300025 | 0000000000000199029 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300047 | Materials group for 4M84300047 | 0000000000000064434 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P4M84300047 | Materials group for 4M84300047 | 0000000000000199029 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P4M843000CC | Materials group for 4M843000CC | 0000000000000198727 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300010 | Materials group for 8784300010 | 0000000000000105533 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300042 | Materials group for 8784300042 | 0000000000000043980 | Value successfully added in set |
| CE7FO01    | ARTNR | Z1KD43P8784300049 | Materials group for 8784300049 | 0000000000000105533 | 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 | 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

#### 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)