

# BW Integrated Margin (WBP)

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## Objectives

This page contains all the documentations of subjects related to Integrated Margin

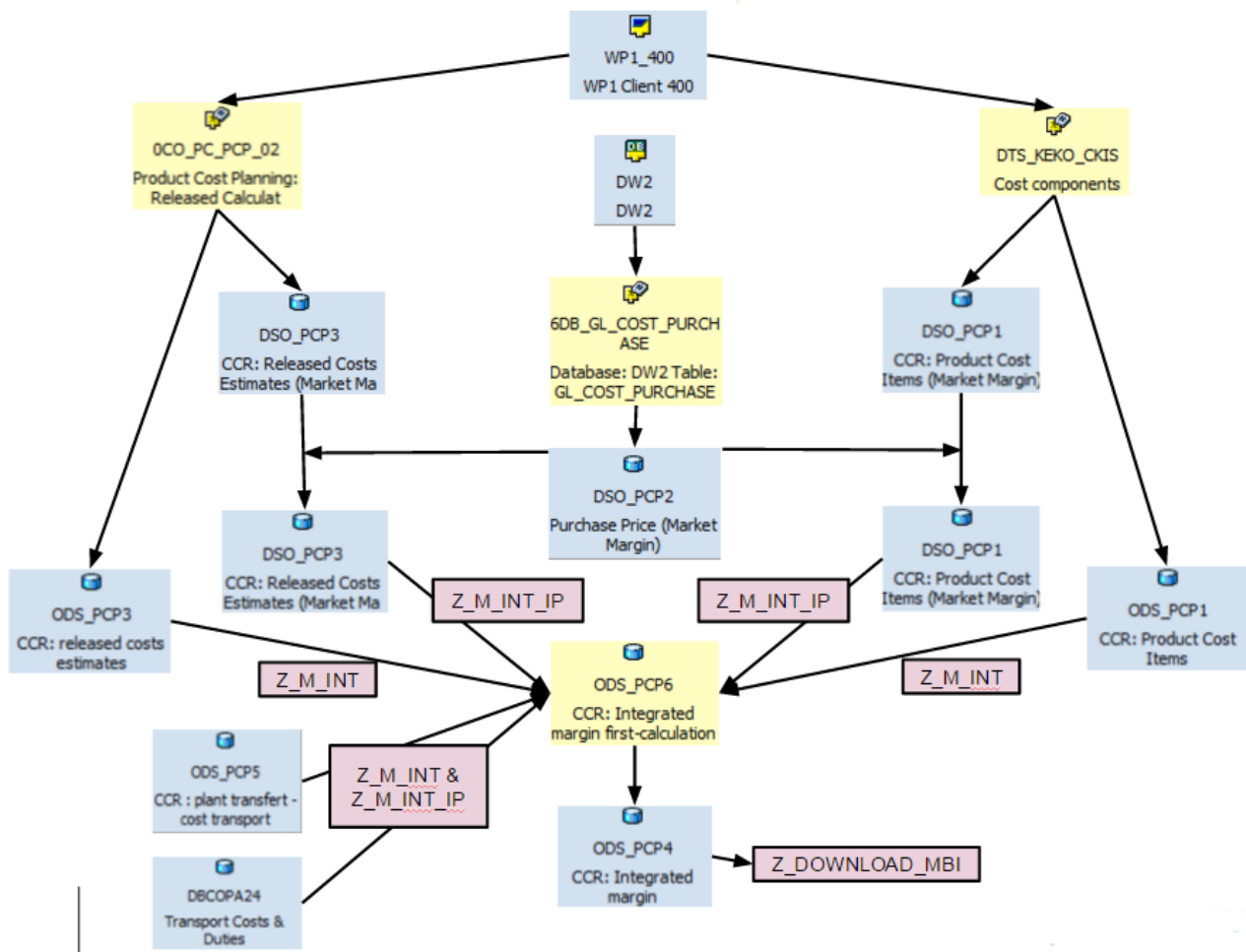
## Infoarea & Infoprovider

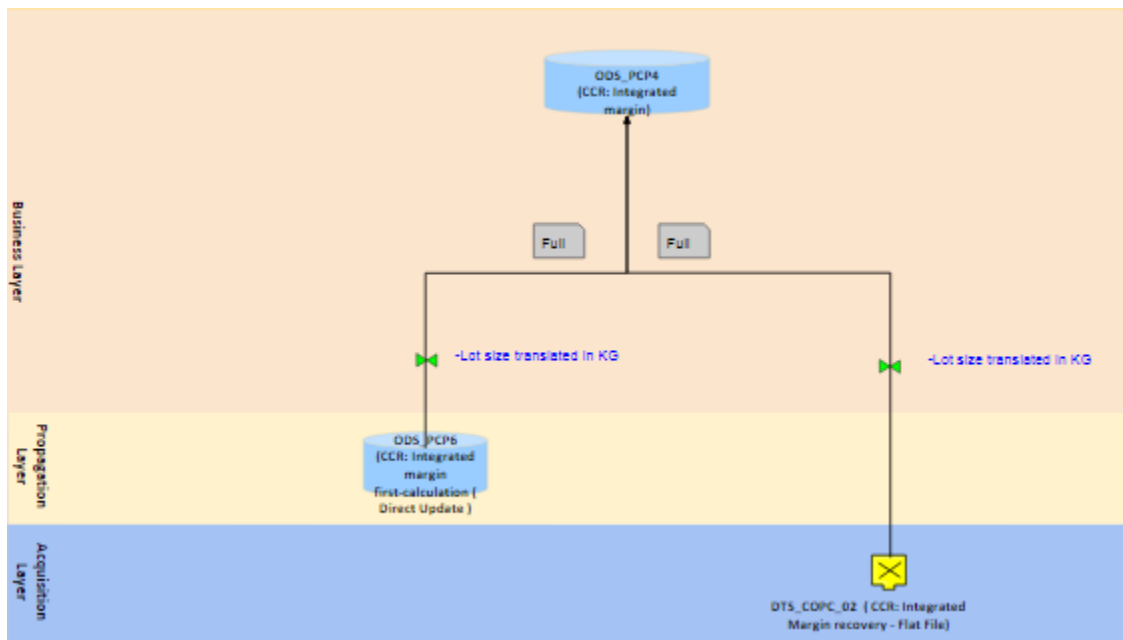
| Infoarea Name                 | Infoarea Techname |
|-------------------------------|-------------------|
| Product Cost Controlling      | AREA_F_COPC       |
| ODS: Product Cost Controlling | AREA_F_COPC_ODS   |
| CCR: Market Margin            | AREA_F_COPC_MM    |

| Infoprovider Name                                          | Infoprovider Techname |
|------------------------------------------------------------|-----------------------|
| Material Units                                             | IST_PCMA              |
| CCR: Cost elements matrix                                  | ODS_PCP2              |
| CCR: released costs estimates                              | ODS_PCP3              |
| CO-PC: list of materials of utilities (10)                 | ODS_PC1A              |
| CO-PC: list of materials of utilities (30)                 | ODS_PC2A              |
| CO-PC: order header quantity (10)                          | ODS_PC1B              |
| CO-PC: order header quantity (30)                          | ODS_PC2B              |
| CCR : Product Cost Planning - All Cost Estimates           | CUB_PCP01             |
| CCR Exploded Itemization                                   | CUB_PCP02             |
| CO-PC: Manufacturing Costs per Process Order (10)          | CUB_PC001             |
| CO-PC: Manufacturing Costs per Process Order (30)          | CUB_PC002             |
| CO-PC: Manufacturing Costs per Process Order               | MPR_PC001             |
| Stock valorisation by costing                              | MPR_ICPC1             |
| CCR : plant transfert - cost transport                     | ODS_PCP5              |
| Transport Costs & Duties                                   | DBCOPA24              |
| CCR: Integrated margin                                     | ODS_PCP4              |
| CCR: Integrated margin first-calculation ( Direct Update ) | ODS_PCP6              |
| CCR: Product Cost Items                                    | ODS_PCP1              |
| Cost Components for Cost of Goods Mfd                      | ODS_PCP7              |
| Resource's Unit Price                                      | ODS_PCP8              |
| CCR: Product Cost Items (Market Margin)                    | DSO_PCP1              |

|                                               |          |
|-----------------------------------------------|----------|
| Purchase Price (Market Margin)                | DSO_PCP2 |
| CCR: Released Costs Estimates (Market Margin) | DSO_PCP3 |

DataFlow Overview





[https://drive.google.com/file/d/1fNTKdo\\_1ePAFojr5e6mYP53za3rDy6r4tQTOtVEh-2w/view](https://drive.google.com/file/d/1fNTKdo_1ePAFojr5e6mYP53za3rDy6r4tQTOtVEh-2w/view)

## Integrated Margin for EP & PI

| Core Query Name                     | Core Query Techname  | Infoprovder Name                         | Infoprovder Techname |
|-------------------------------------|----------------------|------------------------------------------|----------------------|
| BW - Integrated Margin (Core Query) | BW_QRY_ODS_PCP4_0001 | CCR: Integrated margin                   | ODS_PCP4             |
| BW - Integrated Margin (Core Query) | BW_QRY_ODS_PCP4_2    | CCR: Integrated margin first-calculation | ODS_PCP6             |

| Infoprovder Name                                         | Infoprovder Techname | Source System      | Source Infoprovder Name                                                                       | Source Infoprovder Techname |
|----------------------------------------------------------|----------------------|--------------------|-----------------------------------------------------------------------------------------------|-----------------------------|
| CCR: Integrated margin                                   | ODS_PCP4             | WBP_400            | CCR: Integrated margin first-calculation (Direct Update)                                      | ODS_PCP6                    |
| CCR: Integrated margin first-calculation (Direct Update) | ODS_PCP6             | WBP_400            | Updated by ABAP Program                                                                       | 1) Z_M_INT<br>2) Z_M_INT_IP |
| CCR: Product Cost Items (Market Margin)                  | DSO_PCP1             | WP1_400<br>WBP_400 | Cost components<br>CCR: Product Cost Items (Market Margin)                                    | DTS_KEKO_CKIS<br>DSO_PCP1   |
| CCR: Released Costs Estimates (Market Margin)            | DSO_PCP3             | WP1_400<br>WBP_400 | Product Cost Planning: Released Calculations<br>CCR: released costs estimates (Markte Margin) | 0CO_PC_PCP_02<br>DSO_PCP3   |
| Purchase Price (Market Margin)                           | DSO_PCP2             | DW2                | Database: DW2 Table: GL_COST_PURCHASE                                                         | 6DB_GL_COST_PURCHASE        |
|                                                          |                      |                    |                                                                                               |                             |
|                                                          |                      |                    |                                                                                               |                             |

## Data Update Conditions for DSO\_PCP1 from DTS\_KEKO\_CKIS

**Data Source:** DTS\_KEKO\_CKIS

**Source System:** WP1\_400

**Data Flow Version:** BI 7.0

**Transformation:** RSDS DTS\_KEKO\_CKIS WP1\_400 -> ODSO DSO\_PCP1 (0K1O4SUXOC9DPNTS7R3JSO0DRSOF0BY9)

**Start Routine:** This start routine is to do 2 main tasks.

- 1) It is to delete all records where the amount and quantity is equal to zero.
- 2) It is to delete all records where the costing variants are not equal to ZFO, Z25 and ZEP.

**After the start routine, each individual record will have fields that will be set with constant values or formulas.**

**Individual Constants:**

- 1) Costing Variant is overwritten with the new costing variant value ZIP that is defined for this project.

2) Fiscal Variant is fixed to K4.

3) Cost Component Structure is fixed to Z1.

**Individual Routines:**

1) Fiscal Year/Period required some ABAP codings to convert the incoming data into the correct format to be updated.

2) For the key figure Variable Amount, a formula is required to take the total amount minus the fixed amount to get just the variable amount.

## Data Update Conditions for DSO\_PCP3 from 0CO\_PC\_PCP\_02

**Data Source: 0CO\_PC\_PCP\_02**

**Source System: WP1\_400**

**Data Flow Version: BI 7.0**

**Transformation: RSDS 0CO\_PC\_PCP\_02 WP1\_400 -> ODSO DSO\_PCP3 (0CY1UWMKPVWXUI74VIAPF3V2S12PIYQ1)**

**Start Routine: This start routine is to do 2 main tasks.**

1) It is to delete all records where the currency type is not equal to Company Currency (Value = 10).

2) It is to delete all records where the costing variants are not equal to ZFO, Z25 and ZEP.

**After the start routine, each individual record will have fields that will be set with constant values or formulas.**

**Individual Constants:**

1) Costing Variant is overwritten with the new costing variant value ZIP that is defined for this project.

**Individual Routines:**

1) For the key figure 0AMOUNT, we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together.

2) For the key figure K\_CCR\_100 (100 Raw Materials), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 100.

3) For the key figure K\_CCR\_105 (105 Packaging), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 105.

4) For the key figure K\_CCR\_110 (110 Toll Manufacturing), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 110.

5) For the key figure K\_CCR\_120 (120 Utilities - VC), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 120.

6) For the key figure K\_CCR\_200 (200 Labor Costs), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 200.

7) For the key figure K\_CCR\_210 (210 Supplies & Misc.), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 210.

8) For the key figure K\_CCR\_220 (220 Maintenance), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 220.

9) For the key figure K\_CCR\_230 (230 Overheads), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 230.

10) For the key figure K\_CCR\_240 (240 Utilities -FC), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 240.

11) For the key figure K\_CCR\_300 (300 Depreciation), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 300.

12) For the key figure K\_CCR\_310 (310 N/A), we add the Fixed Amount (WERTF) and Variable Amount (WERTV) together if the Cost Component (ELEMNT) equals to 310.

**End Routine:**

1) The purpose of this routine is to check if the current incoming record already exists in the DSO\_PCP3 from the previous month loading. If it exists, delete the incoming record.

## Data Update Conditions for DSO\_PCP2 from 6DB\_GL\_COST\_PURCHASE

**Data Source: 6DB\_GL\_COST\_PURCHASE**

Source System: DW2

Data Flow Version: BI 7.0

Transformation: RSDS 6DB\_GL\_COST\_PURCHASE DW2 -> ODSO DSO\_PCP2 (07G0MUNSUYM2GSSZ09F9Q6CC9OF3LCOZ)

There are 3 individual routines in this transformation to divide the following key figure values that are of currencies Korean Won (KRW) and Japanese Yen (JPY) by 100.

- C\_AMT\_CP
- C\_AMT\_CNP
- C\_AMT\_AMO

## Correction of IM costs - flat file dataflow (ODS\_PCP4 from DTS\_COPC\_02)

This dataflow is used in order to correct directly the costs in ODS\_PCP4.

DTS\_COPC\_02 extract the csv file from BW server, under the following logical path: Z\_IM\_CORRECTION (/exploit/BW/Integrated\_Margin/IM costs correction.csv))

Due to recent archive process the file in the path Z\_IM\_CORRECTION (/exploit/BW/Integrated\_Margin/IM costs correction.csv)) is archived.

We asked Basis team to restore the file and they created new folder and placed the files under the folder.

Folder /exploit/BW/DoNotDelete/

Directory: /exploit/BW/DoNotDelete

| Usable | Viewed | Changed | Length | Owner   | Lastchange | Lastchange | File Name               |
|--------|--------|---------|--------|---------|------------|------------|-------------------------|
|        |        |         | 53     | root    | 08.03.2023 | 17:04:46   | .                       |
|        |        |         | 4096   | exploit | 07.03.2023 | 15:39:48   | ..                      |
| X      |        |         | 12964  | exploit | 04.09.2021 | 02:46:22   | IM_costs_correction.csv |
| X      |        |         | 180    | exploit | 04.09.2021 | 02:44:49   | MARM.csv                |

we have changed the logical path Z\_IM\_CORRECTION to the new location /BW/exploit/DoNotDelete/IM\_costs\_correction.csv

Scheduler (Maintain InfoPackage)

InfoPackage: IP: DTS\_COPC\_02 - Full - From App Server(ZPAK\_SDZ2G9JBSF017G93GGFP7GZL6)

DataSource: CCR: Integrated Margin recovery(DTS\_COPC\_02)

Data Type: Transaction Dat

Source System: PC Files(PC\_FILE)

Last Changed by: FF\_BWPCC1\_T2 Date: 09.03.2023 Time: 13:59:09

Data Selection Extraction Processing Data Targets Update Schedule

Adapter: Load Text-Type File from Application Server

File Name: /exploit/BW/DoNotDelete/IM\_costs\_correction.csv

Header Rows to be Ignored: 1

Character Set Settings: Default Setting

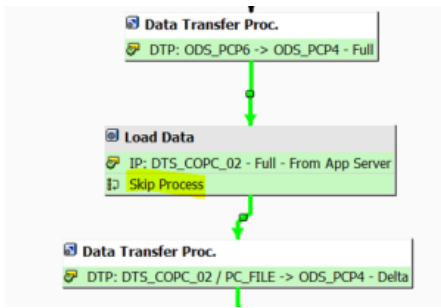
System Codepage: 4103 UTF-16LE Unicode / ISO/IEC 10646

Data Format: Separated with Separator (for Example, CSV)

Data Separator: ; Hex

Escape Sign: " Hex

We have added the skip step for this one as it not required to load every month (will use it when required)



We created the same for WBD, now both WBP and WBD are aligned.

Here is an exemple of file to upload: [https://drive.google.com/drive/folders/1XCCCDxe6eWyeV3SR\\_vM\\_ZYgeYgwUhzt](https://drive.google.com/drive/folders/1XCCCDxe6eWyeV3SR_vM_ZYgeYgwUhzt)

The transformation into ODS\_PCP4 is similar to the one from ODS\_PCP6: it is direct mapping except the conversion of the lot size in Kilogram.

This file is loaded into ODS\_PCP4 in the Process Chain after the loading from ODS\_PCP6 so that the correction is not cleared after an historical recovery.

Read more information in :

<https://drive.google.com/drive/folders/1GIrwkOgG51yYFJYIUVRbBVLGPZV0XrUU>

## Update with project 8612 - Solstice (CPX)

[BW - CO - Integrated Margin](#)

In scope of project [8612 - Solstice](#) we put in place a link between WBP and CPX system to take into account the vault data in calculation of Integrated Margin.

To do that, we have three steps:

- 1 - Transfert source data from WBP to CPX.
- 2 - Calculation of IM in CPX side with data from WBP and WPX.
- 3 - Transfert the result of IM in CPX to WBP and take it into account in the calculation of IM in WBP.

Details:

To put in place these three steps we had to split the chain RSP\_COPCP\_MONTHLY in two chains:

RSP\_COPCP\_MONTHLY to load the source of data and PC\_INT\_MARGIN to [retrieve result of IM from CPX](#) (in dso ABDSOPCP1) and calcul the IM in WBP side.

More details about the split here:

<https://drive.google.com/file/d/12tcCmr7A5nzHRrX8DNPFh4sDTdy1r73H9JePMjU4b8I/view#>

1 - transfert from WBP to CPX:

We use datasource from WBP dso to load data in CPX side.

At the end of process chain **RSP\_COPCP\_MONTHLY** there is a process "Remote process chain" to launch process chain PC\_CO\_PC\_MM\_04 in CPX.

2 - calculation of IM in CPX:

The principle is similar to what we done in WBP. We load data from WPX and WBP in ABDSOPCP1 and after we execute program ZBW\_M\_INT to calculate the Integrated Margin. All is done in meta chain **PC\_CO\_PC\_MM\_04** (CPX).

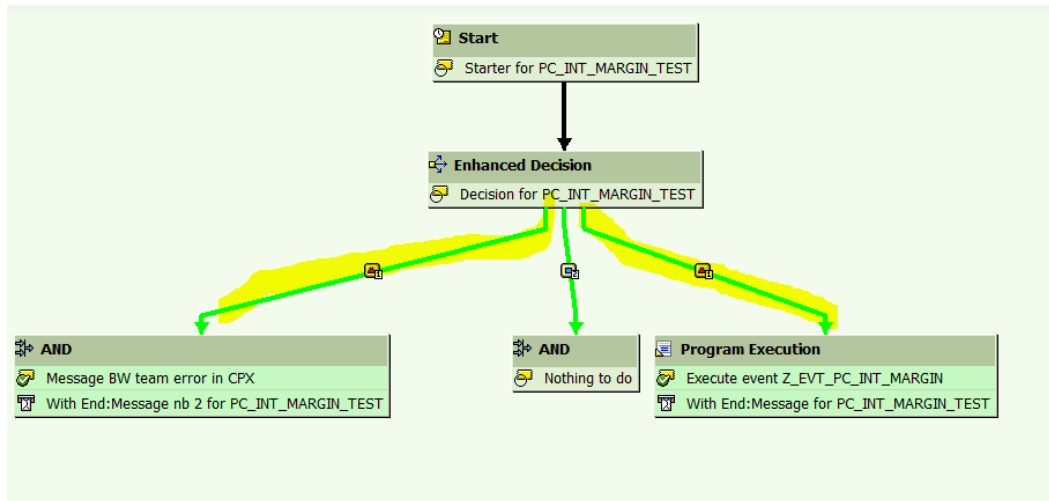
ZBW\_M\_INT in CPX is a copy Z\_M\_INT in WBP, so if there is a change in Z\_M\_INT it may be helpful to make the same change in ZBW\_M\_INT.

3 - Transfert the result of IM in CPX to WBP and take it into account in the calculation of IM in WBP:

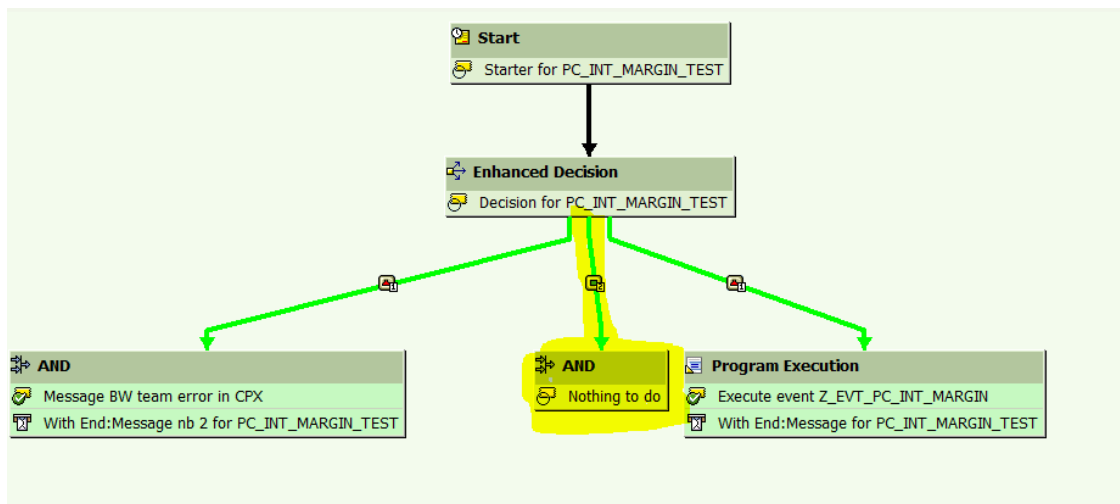
After the calculation of IM in CPX, a webmethods will sent a flat file with results (/exploit/BW/Integrated\_Margin/OH\_COMM01.CSV) in WBP and execute the chain **PC\_INT\_MARGIN** to load dso DSO ABDSOPCP1 with data from CPX, and after load this in ODS\_PCP1 and do the calculation of IM.

If an error occurs in CPX system or with WebMethods, there is a process chain **PC\_INT\_MARGIN\_TEST (Integrated Margin - test if Integrated Margin 2 is scheduled)** which runs every D+3 at 1 a.m. to check if PC\_INT\_MARGIN is running or not:

If not, we can suppose there was a problem and we force the execution of process chain PC\_INT\_MARGIN.



If yes, there is no problem, it's not necessary to force the execution of PC\_INT\_MARGIN.



The calculation of IM has same principle than before, there are two things that change with CPX data.

- Webmethods load data from CPX with a flat file and this flat file is loaded in DSO AADSOPCP1 APDSOPCP1 ABDSOPCP1 and ABDSOPCP2 for historical save.

Data from DSO ABDSOPCP1 are loaded in ODS\_PCP1, like that we have the source from WBP (WP1) and CPX (WPX) to calculate the IM.

Between DSO APDSOPCP1 and ABDSOPCP1 we transpose the data to adapt the source to the next target (ODS\_PCP1). Some values of ABDSOPCP1 are defined in master dat global filter (C\_GLBFLT) on stream "DSO\_PCP1"

- In program Z\_M\_INT we calcul the Integrated Duty and the Integrated Freight with data from CPX (assigned in cost component 400 and 500 in loading of DSO ABDSOPCP1) (this calculation is not done in CPX side with prorgam ZBW\_M\_INT).

