

BW Cash out

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Access Management

Roles & Access

List of application role + menu role and explanation if we have several applications role with specials rules.

Role Code	Role Description	Explanation
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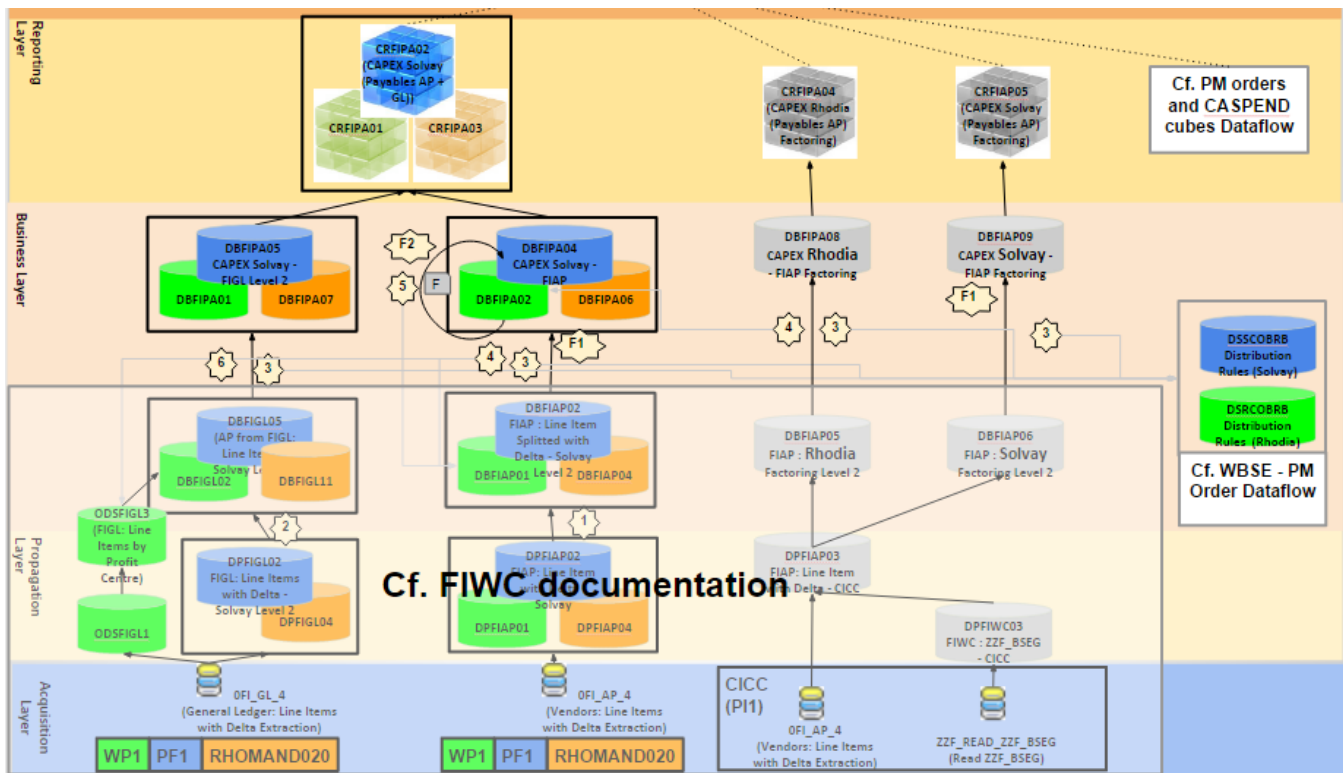
Authorization Objects

List of authorization objects mandatory for the application.

Authorization object	Explanation
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DataFlow

Overview



https://drive.google.com/file/d/1qlsQSDp35xWRgVGh1fJF8KHU40wq6_wbtarSEtt7QT4/view

Technical Rules on Workbench

This flow allows to calculate the Cash key figures in the Project Costs Reporting and CAPEX analysis application. It corresponds to the paid amounts on WBS Elements, calculated according to BFC CAPEX definition.

The assignment of FI AP (vendor) entries to WBSE is performed in BW (and/or datasource exit in ECC) according to the assignment on counterpart P&L entries in the same FI document.

FIWC relevant rules for Project Costs (cf. [FIWC documentation](#)) :

- Net due date management (FIAP) **(R1)**
- Reclassification of Sub-Activity C_SUBACT2 **(R1)**
- FIAP Split **(R1)**
- Additional determination of WBS Element by look-up in P&L items **(R2)**
- Net of Tax amounts calculation (Solvay)

WBS element determination according to the PM orders (R3):

TRSE : DBFIAP02 -> DB_FIAP2 (Solvay) & TRSE : DBFIAP01 -> DB_FIAP1 (Rhodia) (acetow dso DB_FIAP3 not loaded anymore).

Solvay / Rhodia :

The rule consists to split the costs on the PM orders according to the distribution rules on WBS Elements in table COBRB (Extracted to DSO DSSCOBRB (Solvay) and DSRCOBRB (Rhodia)):

We look for settlement type "Per" (by period) and, if there is no, we look for settlement type "GES" (cumulatively). The posting date of the FI doc item must be contained in the validity period of the distribution rules (COBRB-GABJA (Valid-from year) and COBRB-GBISP (Valid-to year)).

The FI original line is duplicated for each line in table COBRB where a WBS Element is filled applying the settlement percentage rate to the amount in a new ratio K_settlmt.

Acetow:

There is no split of PM order costs to WBS Element. We look for the WBS Element attribute in the PM order Master Data and all the costs on the PM order are assigned to this WBSE.

Only line items that could be linked to WBS elements are updated in the target DSO.

Net Due Date Determination (FIGL-AP)(R6):

TRSF : DBFIGL02 -> DBFIAPA01 (Rhodia) & TRSF : DBFIGL05 -> DBFIAPA05 (Solvay)

The net due date is obtained by look up in DSO DSO_PBDT (resp. DPFIAP05 for Solvay) on the doc date and the payment term.

All payment dates are calculated in the datasource DTS_TERMSPAY_CALENDAR and extracted into BW in DSO DSO_PBDT.

Deletion of existing lines in the DSO DBFIAPA* (R3):

TRSF : DBFIGL02 -> DBFIAPA01 (Rhodia) & TRSF : DBFIGL05 -> DBFIAPA05 (Solvay) & TRSF : DBFIAP02 -> DBFIAPA04 (Solvay) & TRSF : DBFIAP01 -> DBFIAPA02 (Rhodia) & ODSO DBFIAP06 -> ODSO DBFIAPA09

As the WBS element is part of the key of the DSO, if, for any reason (change in PM order settlement rules for instance), the determined WBS element for an accounting document item has changed, the key on the old WBS element still remain and a new key is created which would lead to false result and duplicated amounts.

In consequence, before to update a document item in the DSO, when the WBSE is derived from the PM order, the existing lines on this document item in the DSO are deleted by creating new entries in the datapackage with recordmode = "D". Actually, existing lines are always deleted in Solvay flows even when the WBSE was already filled in DBFIAPA* DSO, but this deletion could be limited (as it is done in RCS flow) to the lines where the WBSE is initial and will be derived from the PM order.

In FIAP flows, an accounting document item can be split by several characteristics and in FIGL Rhodia, a document item can be split by profit center. If not all the lines of a document item are processed in the same datapackage, only the keys in the last source package would remain. To avoid that problem, a "Semantic Group" is defined in the DTP to ensure that all lines of a document item are processed in the same datapackage (it also implies that all lines of a same document item must be change at the same time in the source DSO).

Key Field	Field Name	Long Description
☒	LOGSYS	Source System
☒	/BIC/C_COMPDE	Company code
☒	FISCPR	Fiscal year / period
☒	FISCVARNT	Fiscal year variant
☒	AC_DOC_NO	Accounting document number
☒	ITEM_NUM	Number of line item within accounting document
☐	/BIC/C_VFNDID	Vendor number

=> in consequence, in case of historical data recovery using this transformation, avoid to filter on a split criteria that could lead to not reload the complete FI line item (for instance, if a line item is split on 3 different WBS elements, to not filter on one WBS element, else, the complete line item will be deleted in the target but only the part of the line item with the filtered WBS element will be updated).

In an FIAP delta loading, deletion and recreation of all lines on the document item is done on the source DSO, so it is impossible that not all lines on the same document item are loaded on the same delta request.

For Rhodia FIAP factoring flow (ODSO DBFIAP05 -> ODSO DBFIAPA08): not all the lines on the document item are deleted before update but only the lines on the exact key (except the WBSE which could be redetermined in the transformation). As the WBSE is determined from the PM order settlements rules if not already filled, we delete all the lines on the PM order. We put in error stack entries at a finer level than the FI document item, which means not all the lines concerning a document item could be reprocessed in the same error package, so it is necessary to not delete all the lines at each load (or manage to put all entries for a same doc item in the error stack). The semantic group is defined in consequence.

Net Of Tax amounts calculation (Rhodia) (R4):

For Rhodia (DBFIAP01 DBFIAPA02):

Net of Tax amounts (K_NOTXLC and K_NOTXDC) corresponds to the sum of the amounts of the non "K" items on the accounting document that are affected to the same Purchase Order item (even if empty), same WBS element and CO order.

This is done by a look up in the DSO ODSFIGL3. For residual payments (FI_REBZT = "V" or "Z"), the Net of Tax amounts are obtained from the reference invoice (inv_doc_no) : NoT of the residual payment = NoT amounts of the inv_doc_no * (including tax amounts of the residual payment / including tax amounts of the inv_doc_no) => except if it is a residual payment of a residual payment (there are some existing case), because it would be even more complex, we decided to not apply this exception rule.

Net Of Tax amounts can be correctly determined only if the FIAP item is split by PO item. As the Rhodia FIAP split by PO item was done in 2016 and that FI documents before 2013 were archived in WP1, Net Of Tax amounts can't be calculated for year < 2013. In consequence, it was chosen to update Net of Tax amounts with the including tax amounts (Net of Tax amounts = Incl. tax amounts) for year <2013.

For Rhodia factoring (DBFIAP05 DBFIPA08):

Net of Tax amounts are calculated according to the original FI document item.

The original FI document item is read in DSO DBFIPA02 using the factoring contract number.

As the original document item is split similarly to the CICC document item, we find the equivalent for each line on the FI document item, calculate the Net of Tax rate of the original document lines and apply it to the CICC amounts : CICC NoT amounts = CICC amounts * (original NoT amounts / original amounts)

Clearing date review for Korean Payment Card (Rhodia) (R5)

In Project Costs reporting, an invoice is considered as paid at the time of the clearing date.

Korean Payment Card (KPC) is a payment method with specific posting schema (on Payables side):

the invoice is cleared by a debt transfer posting (document type = "ZP") but it should be considered as paid at the time of the debt transfer clearing by a payment posting.

Example:

			Psting date	Vendor	Acct	D/C	CGS	Clear date	Clear doc	Clear doc	PO
GR											
WE	5000002894	7525	25.03.2013	-	40100300	C		28.03.2013	RE	3000002698	4201018970
					98300042	D		28.03.2013			4201018970
IR											
RE	5100001494	7525	25.03.2013	114152	40100100	C		10.04.2013	ZP	2000001841	
				-	40100300	D		28.03.2013	RE	3000002698	4201018970
Debt transfert											
ZP	2000001841	7525	10.04.2013	114152	40100100	D		10.04.2013	ZP	2000001841	
				114152	40100230	C	B	10.06.2013	KZ	1500000800	
					50321181	C		30.04.2013		1000004795	
					50322181	D		30.04.2013		1000004795	
Payment											
KZ	1500000800	7525	10.06.2013	114152	40100230	D	B	10.06.2013	KZ	1500000800	
					50060181	C					

In a transformation from DSO DBFIPA02 to itself (*TRCS IB FIPA 01 -> ODSO DBFIPA02*), for all documents (<> "ZP") that are cleared by a "ZP" document, a look up is done in the clearing document in DSO DBFIAP01. The initial clearing date is changed to the clearing date of the clearing document item with CGS code (sp_gl_ind) = "B". A "FULL" load is needed as the invoice is not updated when the ZP document is cleared.

Only documents from Rhodia source system are concerned.

Error stacks :

Rhodia (DBFIAP01 DBFIPA02):

An error stack is updated when the document can't be found in FIGL DSO ODSFIGL3, which means that the Net of Tax amounts calculation could not have been done. For residual payments, the error stack is updated when the reference invoice can't be found in FIGL DSO.

Documents updated in the error stack are NOT updated in the target DSO => if this behaviour has to be changed, be careful about the factoring flow (DBFIAP05 DBFIPA08) which put entries in error stack when the original document is not found in DBFIPA02, maybe a delta should be generated to reprocess corresponding factoring documents when the NoT amounts are finally calculated.

The error stack is reprocessed at every loads.

To not forget that when we delete an error DTP request in a target, it will clear the entire error stack, so we should also delete all the "normal" DTP requests that brought the data into the error stack or manually reprocessed the entries that were into the error stack.

Entries should normally not stay more than once into the error stack else, something must be wrong and an analysis must be done.

Rhodia factoring (DBFIAP05 DBFIPA08):

An error stack is updated when there is no correspondance in DSO DBFIPA02, which means that the Net of Tax amounts calculation could not have been done.

Only new images (recordmode "" or "N") are put into the error stack because for other recordmodes, it can correspond to keys that do not exist anymore and it would stay permanently in the error stack.

Documents updated in the error stack are also updated in the target DSO.

The error stack is reprocessed at every loads.

To not forget that when we delete an error DTP request in a target, it will clear the entire error stack, so we should also delete all the "normal" DTP requests that brought the data into the error stack or manually reprocessed the entries that were into the error stack.

Entries should normally not stay more than once into the error stack else, something must be wrong and an analysis must be done.

Reporting

Dependencies with other applications

Data loadings

Info providers and objects loaded

Process Chain	Code	Type	Frequency	Comments
FIPA: TD - Rhodia (Payables AP + GL)	PC_FIP A_01	SLAVE	- launched by RSP_DAILY - Daily - Closure period: 8 times per day (1:00 am, 7:30 am, 10:40 am, 12:45 pm, 2:45 pm, 4:50 pm, 6:50 pm, 10:45 pm) - During the week: 4 times per day (1:00 am, 7:30 am, 12:45 pm, 6:50 pm) - Sunday night to thursday night, at 1:00am - Whole chain lasts around 10 minutes	- RCS - From DSO Business FIGL-AP and FIAP to cubes - Cash Out
FIPA: TD - Solvay (Payables AP + GL)	PC_FIP A_02	SLAVE	- launched by PC_FIWC_01 - Daily - Closure period: 8 times per day (4:00 am, 7:00 am, 12:50 pm, 2:45 pm, 4:50 pm, 6:50 pm, 10:55 pm) - During the week: 4 times per day (4:00 am, 7:00 am, 12:50 pm, 7 pm) - Not the weekend. - Sunday night to thursday night, at 7:30am, 1:00pm, 8:00pm - Whole chain lasts around 10 min	- Solvay system - From DSO Business FIGL-AP and FIAP to cubes for Cash out, from datasource for payment dates - Cash out and payment dates - Decision tree in order to execute processes only on a time slot defined in C_GLBFLT
FIPA: TD - Acetow (Payables AP + GL)	PC_FIP A_03	SLAVE	Not scheduled	

Operational Documentation

Procedures

<Describe the recurring procedures needed to operate the application (eg. start/pause/terminate/restart the app processes, data preparation, data ingestion, ETL, data visualization, data export, other manual activities)>

Scheduling

<Describe the scheduling in place for the application (eg. existing jobs, trigger time/event based, dependencies)>

Monitoring

<Describe the monitoring checks to confirm the application is performing well (eg. check the overall status, check performance metrics like runtime/data volume/memory/disk/CPU, maintain and react to alerts/notifications)>

Error Handling

<Describe how to handle errors (eg. error codes, description and respective resolution, alert users)>

Known Bugs

- This is not a "known bug" but a theoretically potential problem:
For data from Solvay ERP, a gap between CO order / WBSE in "S" entries (CAPEX FIGL) and "K" entries (CAPEX FIAP) could be possible for RMRP documents. Because, if the "S" line item is cleared in a second time (the clearing will allow to link the invoice to the reception document), "S" entry could be updated with the CO order filled in the reception doc for instance (in transformation DPFIGL02 DBFIGL05), however, the "K" entry will not change and not reloaded in the Business layer (DPFIAP02 DBFIAP02) and so the assignment will not change ("K" entry is assigned to the CO order in "S" entries of the same document) until the payment is done (clearing of the "K" entry).
As OFI_AP_4 will extract "K" items for any change on the document, even if only a "S" item of the document was changed, a solution could be to include a timestamp in DPFIAP02 in order to create a delta for every items updated even if the no field has changed. So the "K" entry will be reprocessed in Business transformation layer when the "S" item is cleared (however, nothing ensure at 100% that the "S" item change will be loaded in DBFIGL05 before the "K" item is reprocessed).
- This is not a "known bug" but a theoretically potential problem:
For data from Rhodia ERP, for Net of Tax amounts calculation (DBFIAP01 DBFIPA02), there is no rule to manage the case there is several "K" entries on the same document. If it exists and they are split on the same WBSE / CO order / Purchase order item => then, the NoT amounts for each "K" item will be identical and will correspond to the sum of the amounts in the non "K" entries of the document or it will be equal to the including tax amounts if the calculated NoT amounts are greater than the including tax amounts.

Roadmap