

RE-FX for CAPEX /\ Obsolete /\



The new wiki link for this data flow is here:

[RE-FX for CAPEX](#)

Please update the new doc there and no longer here.



BW RTR RE-FX (Flexible Real Estate Management)

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Objective of the application

This page provides all the technical and detailed documentation concerning the "RE-FX" application in BW, IFRS 16 is effective for annual reporting periods beginning on or after 1st January 2019, with earlier application permitted (as long as IFRS15 is also applied). With IFRS 16, it is no longer required to treat financial and operational leases differently from an accounting perspective and therefore this new leasing standard eliminates nearly all "off-balance" sheet accounting for leases. The goal of the new lease accounting rules is to increase transparency and to enable the users of financial statements to assess the impact of their organization's leases on the financial position and cash flow directly from its balance sheet. To meet that objective, a lessee should recognize assets and liabilities arising from a lease.

ECC changes

Data Source – Master Data

Enhanced ORECONTRACT_ATTR data source, added new fields, and written logic in class "Z0RECONTRACT_ATTR" under "DATA_TRANSFORM" method.

BI Service API: Display DataSource ORECONTRACT_ATTR



General		Extraction	fields
FieldDefinitions			
Pos.	Field name	Data element	Property Tran... Sele... Sel. Optio... Key Inve... Only... I
42	RNTYPE	<u>RETMRNTYPE</u>	☒ ☐ 0 ☐ ☐
43	RNAUTTYPE	<u>RETMRNAUTTYPE</u>	☒ ☐ 0 ☐ ☐
44	RNENDNEXT	<u>RETMRNENDNEXT</u>	A ☐ ☐ 0 ☐ ☐
45	ZZPOSID	<u>PS POSID</u>	P ☒ ☐ 0 ☐ ☐
46	ZZC_VENDID	<u>LIFNR</u>	P ☒ ☐ 0 ☐ ☐
47	ZZC_AT_MAN2	<u>ZC AT MAN2</u>	P ☒ ☐ 0 ☐ ☐
48	ZZC_ASSET2	<u>ZC ASSET2</u>	P ☒ ☐ 0 ☐ ☐
49	ZZC_ZZCONV	<u>ZZ1F CONV</u>	P ☒ ☐ 0 ☐ ☐
50	ZZC_ZZVENDID	<u>ZZ1F VENDID</u>	P ☒ ☐ 0 ☐ ☐
51	ZZPROBABLEEND	<u>RECEPROBABLEEND</u>	P ☒ ☐ 0 ☐ ☐
52	ZZNOTE	<u>RECENOTE</u>	P ☒ ☐ 0 ☐ ☒
53	ZZFREQUENCY	<u>RECDFREQUENCY</u>	P ☒ ☐ 0 ☐ ☒
54	ZZFREQUENCYUNIT	<u>RECDFREQUENCYUN...</u>	P ☒ ☐ 0 ☐ ☒
55	ZZFREQUENCYUNITT		P ☒ ☐ 0 ☐ ☒
56	ZZCONDVALUEREFER	<u>RECDCONDVALUERE...</u>	P ☒ ☐ 0 ☐ ☒
57	ZZCONDVALUEREFERT		P ☒ ☐ 0 ☐ ☒
			☐ ☐ ☐ ☐

Class

Class Builder: Display Class Z0RECONTRACT_ATTR



Class/Interface	Z0RECONTRACT ATTR	Implemented / Active
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Properties	Interfaces	Friends	Attributes	Methods	Events	Types	Aliases
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Method	Level	Visibility	Me...	Description
DATA_TRANSFORM	Instance Method	Public		DATA_TRANSFORM

Data Source – Transaction Data

Data Source - OREFX_6
Activated OREFX_6 from standard SAP business content in both PF1 and WP1 sources.

Datasource : OREFX_6	
Description	RE: Cash Flow
Datasource Type	Transaction Data Extractor
Application	-
Delta Process	Full Load (Delta possible by using a DSO)
Extraction Method	Based on Function Module (Complete Reference)
Extractor	REIS_CASHFLOW_TRAN_GET
Extractor Structure	REIS_CASHFLOW_TRAN
Source Tables (Function Module)	REIS_CASHFLOW_TRAN_GET (Function Module)

ODP enabled data source only in WP1 not in PF1. Prerequisite and reason being for having ODP enablement is, source system must be on EHP8.

OREFX_6	RE: Cash Flow	
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BW Changes

Info Area in BW

Flexible Real Estate Management (IA_REFX) is the newly created info area in BW system. All the newly created objects for RE-FX, like Info objects, DSOs, Cubes and corresponding data flows are created under this info area.

Real Estate Management	IA_RE
Flexible Real Estate Management	IA_REFX
Flexible Real Estate Management - Master Data	IA_REFX_MD
Flexible Real Estate Management - Transactional Data	IA_REFX_TD
Flexible Real Estate Management Propagation Layer	IA_REFX_PROPAGATION
Flexible Real Estate Management Business Transfer Layer	IA_REFX_BUSINESS_TRANSFORMATIO
Flexible Real Estate Management Reporting Layer	IA_REFX_REPORTING_LAYER

ODP Source System

There is a new ODP system created in BW named WP1_ODP. Using this ODP source system data is being extracted using SAP's new ODP mechanism, which give more flexibility in terms of connectivity and data extraction.

Note: Only WP1 data is extracted using ODP connection. Where, PF1 is still using the RFC connection and not ODP connection.

Source Systems		Tech. Name	Execute Function	O...	Object Ir
➤	BW	BW	Create...		
➤	SAP	SAP	Create...		
➤	ODP - BW	ODP_BW	Create...		
▼	ODP - SAP (Extractors)	ODP_SAP	Create...		
	▪ ARINSO Development system	DP9_100	Display DataSour...		SAPI
	▪ WD1	WD1_ODP	Display DataSour...		SAPI

Info Objects

Info object Contract (C_RECONTR) is enhanced with new attributes in BW for this RE-FX data flow under info area IA_REFX_MD.

Flexible Real Estate Management	IA_REFX
Flexible Real Estate Management - Master Data	IA_REFX_MD
Business Partner	C_BPARNR
Cash Flow Status	OCFSTATUS
Contract	C_RECONTR
Contract - Affiliate	C_RECTRAF
Contract Number	C_VERTNR
Contract Type	C_CONTRTY
Contract: 1st Business Partner	C_CONTBP1
Contract: 1st Partner Role	C_CTRROL1
Contract: 2nd Business Partner	C_CONTBP2
Contract: 2nd Partner Role	C_CTRROL2
Real Estate: BP Role	C_REBPOL

Display Characteristic C_RECONTR: Details

Version Comparison											
BI Content											
Characteristic C_RECONTR											
Long Description Contract											
Short Description Contract											
Version Active Saved Object Status Active, executable											
General Business Explorer Master Data/Texts Hierarchy Attributes Compounding											
Delete Master Data with Orecordmode Navigation Attribute InfoProvider											
Attributes: Detail/Navigation Attributes											
Attribute	Ve...	Long Description	Ty.	Ti...	In...	Or...	Na...	Au...	Te...	Navigation Att. Description	Nav. Attribute ... Navigation Attrib. Name
C_AT_MAN2		Main Asset Number	NAV			0			✓	Main Asset Number	Main Asset Num. C_RECONTR_C_AT_MAN2
C_ASSET2		Asset Sub-number	NAV			0			✓	Asset Sub-number	Asset Sub numb. C_RECONTR_C_ASSET2
C_ZZCONV		Convergence ID	NAV			0			✓	Convergence ID	C_RECONTR_C_ZZCONV
C_ZZVENDI		Vendor Contract ID	NAV			0			✓	Vendor Contract ID	Vendor Contract. C_RECONTR_C_ZZVENDI
C_COSTCTR		Cost Center	NAV			0			✓	Cost Center	Cost Center C_RECONTR_C_COSTCTR
C_FUNCT_1		1 Organisation	NAV			0			✓	1 Organisation	1 Organisation C_RECONTR_C_FUNCT_1
C_FUNCT_2		2 Function	NAV			0			✓	2 Function	C_RECONTR_C_FUNCT_2
C_FUNCT_3		3 Sub-function Grouping	NAV			0			✓	3 Sub-function Grouping	3 Sub-funct Gro. C_RECONTR_C_FUNCT_3
C_FUNCT_4		4 Sub-function	NAV			0			✓	4 Sub-function	C_RECONTR_C_FUNCT_4
C_PROJ_2		Project Definition	NAV			0			✓	Project Definition	C_RECONTR_C_PROJ_2
C_ASSCLAS		Asset Class	NAV			0			✓	Asset Class	Asset Class C_RECONTR_C_ASSCLAS

The enhanced info object Contract (C_RECONTR) is added with attributes and used in data flows of RE-FX and FI-GL.

Below are the info objects created and added as attributes of C_RECONTR.

Created new IOBJs Asset Sub-number (C_ASSET2), Convergence ID (C_ZZCONV), Vendor Contract ID (C_ZZVENDI), Valuation memo (C_VALMEMO), Frequency (C_FREQUEN), Frequency unit (C_FREQUUN), Frequency (C_VALREF). Also added Vendor number (C_VENDID), Main Asset number (C_AT_MAN2) as attributes of Contract (C_RECONTR).

ADSOs

There are four ADSOs created for RE-FX.

Please see the attached field-mapping document, which consists of field-to-field mapping from source system and then up to the cube level along with logic for the custom characteristics and key figures.



IFRS16 New 0REFX_6
Data Sources.xlsx

Propagation layer

- ✚ Flexible Real Estate Management Propagation Layer
 - REFX: Cash Flow - Rhodia
 - REFX: Cash Flow - Solvay

IA_REFX_PROPAGATION
APREFX01
APREFX02

Business Transformation Layer

Two ADSOs (ABREFX01/02) as Business transformation layer

- ✚ Flexible Real Estate Management Business Transfer Layer
 - REFX: Cash Flow - Rhodia Level 2
 - REFX: Cash Flow - Solvay Level 2

IA_REFX_BUSINESS_TRANSFORMATIO
ABREFX01
ABREFX02

K_REPAYMT and K_ACCLINT new KF have been created and managed in BTL DSOs and Reporting Layers Cubes

And there is a logic written in transformation for K_REPAYMT and K_ACCLINT as per the business requirement.

Only Payment entries with Flow Type 0RE_FLW_TP = I400 have to be enhanced with new KF K_REPAYMT and K_ACCLINT

For each payment entry (P), the idea is to identify previous Payment (PrP) assigned to the same Contract* (meaning entries such as Due date 0NETDUE DATE < P Due date), and to sum up Interests collected in the meantime

*Same Contract 0RECONTRACT means also same Source System 0LOGSYS + same Company Code 0COMP CODE

Case 1: If no found entry (payment P is the 1st one or the only one in the Contract)

Selection of all Interest entries with Flow Type = I300/I301/I302 assigned to the same Contract with I Due date =< P Due date

If no found entry, update of P Payment entry with:

K_ACCLINT = 0

K_REPAYMT = 0CFAMNTNET - K_ACCLINT

If found entries with I Due date starting with 01

Sum up of 0CFAMNTNET of all Interest entries with I Due date < P Due date, and update of P Payment entry with:

K_ACCLINT = sum up result (incl. I300 + I301 - I302)

K_REPAYMT = 0CFAMNTNET - K_ACCLINT

If found entries with I Due date starting with <> 01 (and not empty)

Sum up of 0CFAMNTNET of all Interest entries with I Due date =< P Due date, and update of P Payment entry with:

K_ACCLINT = sum up result (incl. I300 + I301 - I302)

K_REPAYMT = 0CFAMNTNET - K_ACCLINT

Case 2: If N found entries, (payment P is not the 1st one in the Contract)
Selection of the latest previous one (PrP)
If PrP Period 0FISCPER = (P Period or P Period-1), meaning if previous payment is in same period or period-1 (ex. 11.2018 or 12.2018 for 12.2019)
Selection of all Interest entries with Flow Type = I300/I301/I302 assigned to the same Contract with PrP Due date =< I Due date =< P Duedate
If no found entry, update of P Payment entry with:
K_ACCLINT = 0
K_REPAYMT = 0CFAMNTNET - K_ACCLINT
If found entries with I Due date starting with 01
Sum up of 0CFAMNTNET of all Interest entries with I Due date < P Due date, and update of P Payment entry with:
K_ACCLINT = sum up result (incl. I300 + I301 - I302)
K_REPAYMT = 0CFAMNTNET - K_ACCLINT
If found entries with I Due date starting with <> 01 (and not empty)
Sum up of 0CFAMNTNET of all Interest entries with I Due date = P Due date, and update of P Payment entry with:
K_ACCLINT = sum up result (incl. I300 + I301 - I302)
K_REPAYMT = 0CFAMNTNET - K_ACCLINT
Else, meaning if previous payment is not in same period or period-1
Selection of all Interest entries with Flow Type = I300/I301/I302 assigned to the same Contract with PrP Due date =< I Due date =< P Duedate
If no found entry, update of P Payment entry with:
K_ACCLINT = 0
K_REPAYMT = 0CFAMNTNET - K_ACCLINT
If found entries with I Due date starting with 01
Sum up of 0CFAMNTNET of all Interest entries with PrP Due =< I Due date < P Due date, and update of P Payment entry with:
K_ACCLINT = sum up result (incl. I300 + I301 - I302)
K_REPAYMT = 0CFAMNTNET - K_ACCLINT
If found entries with I Due date starting with <> 01 (and not empty)
Sum up of 0CFAMNTNET of all Interest entries with PrP Due < I Due date =< P Due date, and update of P Payment entry with:
K_ACCLINT = sum up result (incl. I300 + I301 - I302)
K_REPAYMT = 0CFAMNTNET - K_ACCLINT

Please see attached spreadsheet, which contains above logic as well as few examples to explain the logic. This spreadsheet also contains information on fields mapping from source system to propagation layer and further, up to Reporting Layer.



IFRS16 New OREFX_6
data sources Latest fo

Cubes

Reporting Layer

There are two cubes created for RE-FX. One for CRREFX01 - CAPEX REFX data – Rhodia and other for CRREFX02 - CAPEX REFX data – Solvay

Flexible Real Estate Management Reporting Layer	IA_REFX_REPORTING_LAYER
CAPEX REFX data - Rhodia	CRREFX01
CAPEX REFX data - Solvay	CRREFX02

Multi provider

Cubes CRREFX01 and CRREFX02 are included in Multi provider (MVFICX01) and required fields have been mapped as per business requirement.

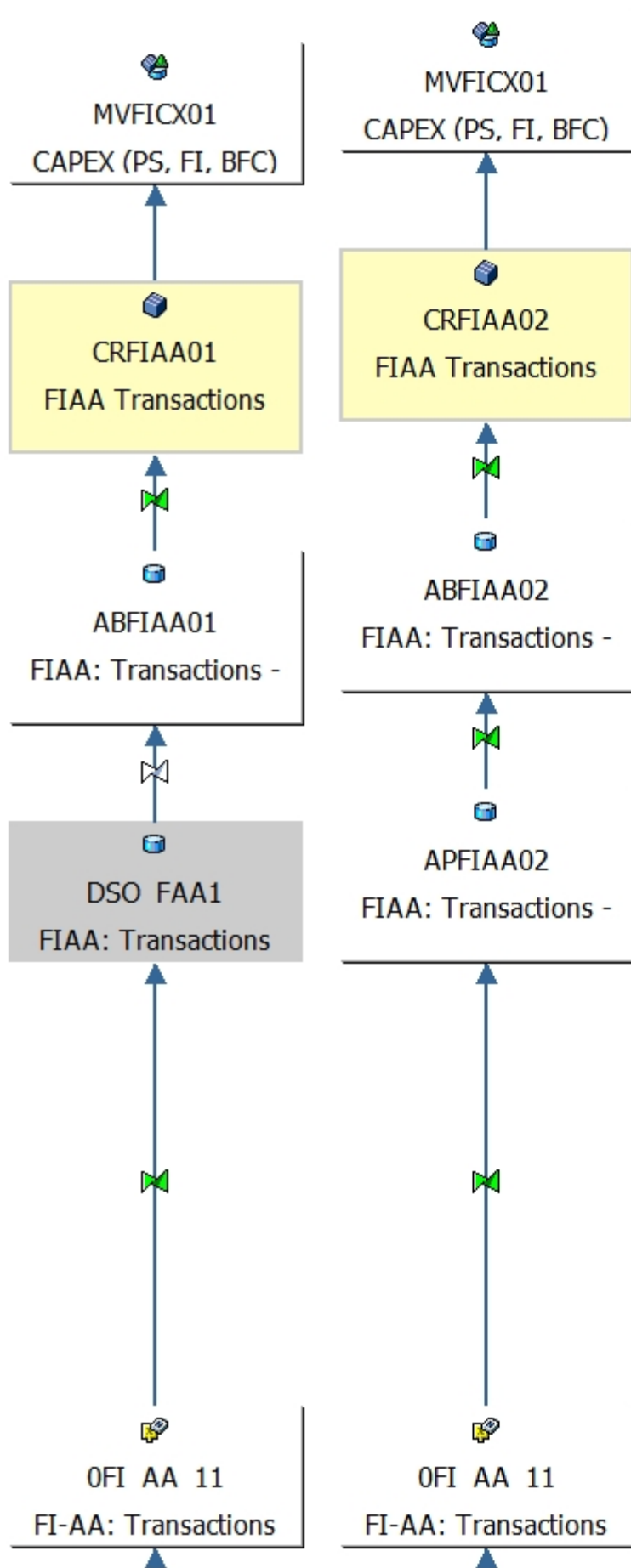
CAPEX	IA_FMCO_FICX
CAPEX Virtual Layer	IA_FMCO_FICX_VIRTUAL
CAPEX FI-GL data for G/L Acct (S)	CPFICX02
CAPEX (PS, FI, BFC)	MVFICX01

Please find the below link for MP mappings.



MVFICX01 update
from various Cubes.xl

Data Flow

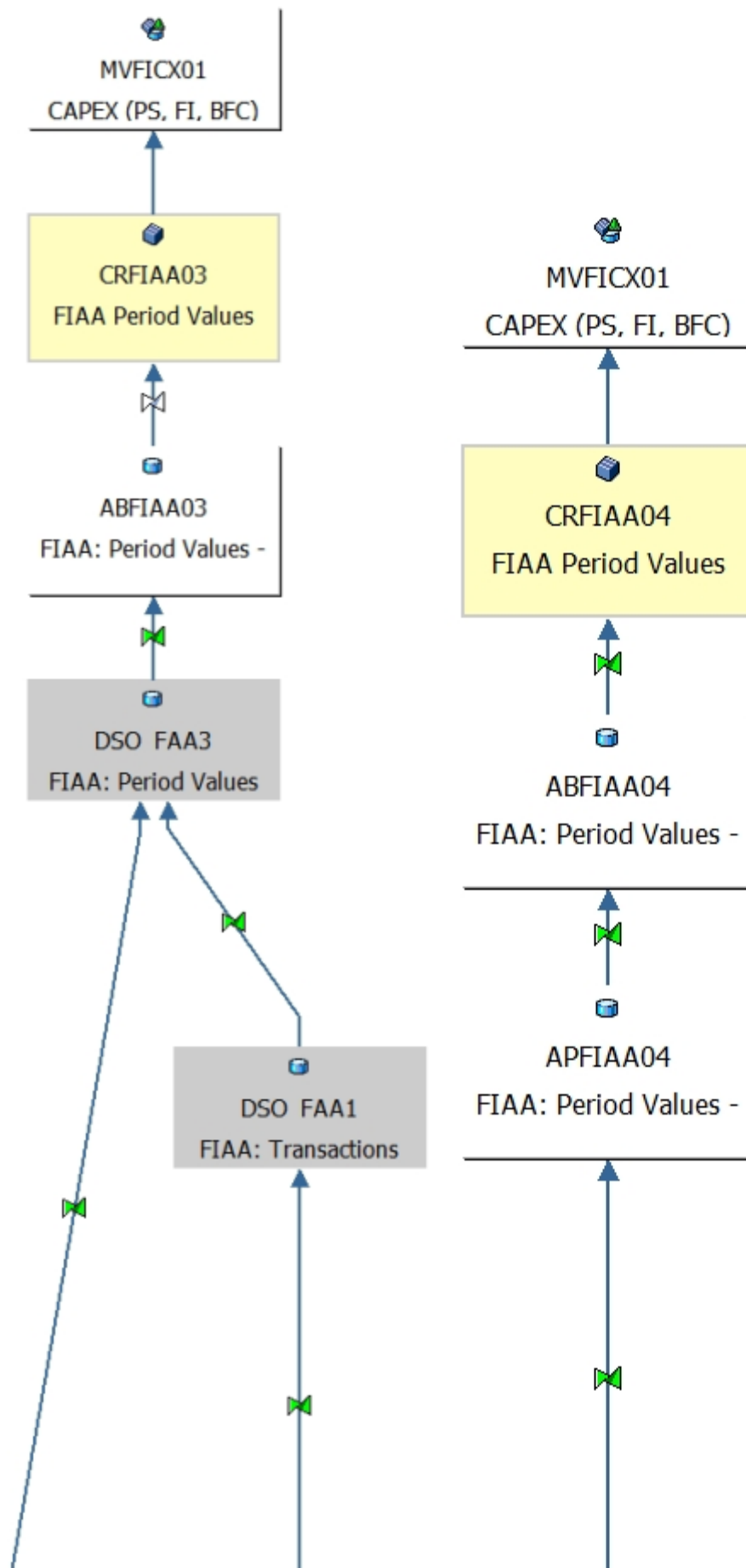


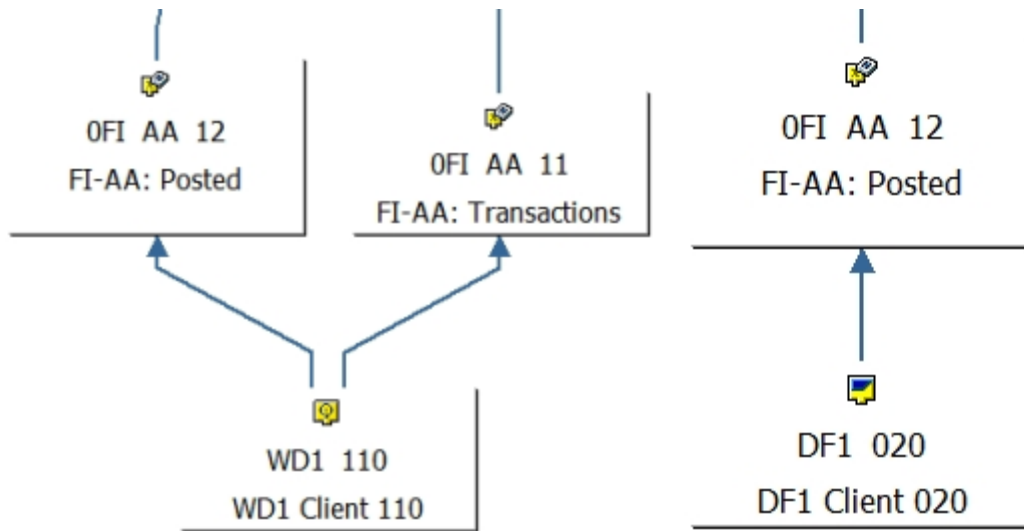


WD1 110
WD1 Client 110



DF1 020
DF1 Client 020





Process Chains

Dependency – While loading C_RECONTR there are few dependent info objects need to be loaded first (C_COSTCTR and C_ASSET2) as these are being used in the transformation routine for LOOKUP.

Process Chain	Code	Type	Frequency	Comments
REFX: TD - D - CAPEX - Rhodia	PC_REFX_01	SLAVE	- launched by PC_REFX_01 - Daily 1 time (including closing period) - Monday morning to Friday morning at 8:00am - Whole chain lasts around 7 minutes	- Rhodia system - From DSO Propagation REFX to BTL DSO - From BTL DSO to Reporting Cube
REFX: TD - D - CAPEX - Solvay	PC_REFX_02	SLAVE	- launched by PC_REFX_02 - Daily 1 time (including closing period) - Monday morning to Friday morning at 8:00am - Whole chain lasts around 17 minutes	- Solvay system - From DSO Propagation REFX to BTL DSO - From BTL DSO to Reporting Cube