

Hyperion Focus 2015

What I should know before migrating to FDMEE

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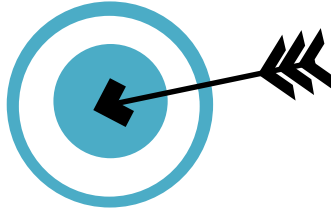
Agenda

- Current landscape at a glance
- Where do we start?
- Defining your approach
- Shooting range
- Case Study: Smurfit Kappa Group
- Highlights
- Q&A

About Infratects

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- 2000** INFRAECTS NL
- 2008** INFRAECTS AUS
- 2009** INFRAECTS UK
- 2012** INFRAECTS FI
- 2012** INFRAECTS SP
- 2014** INFRAECTS US

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About me

- Data Integration Leader @Infratects
- +9 years Hyperion Experience focused on Data Integration
- Link between functional and technical people
- FDMEE Blogger
 - [fishing with FDMEE](#)
- FDMEE Trainer
- Active member of OTN
- Trail running lover

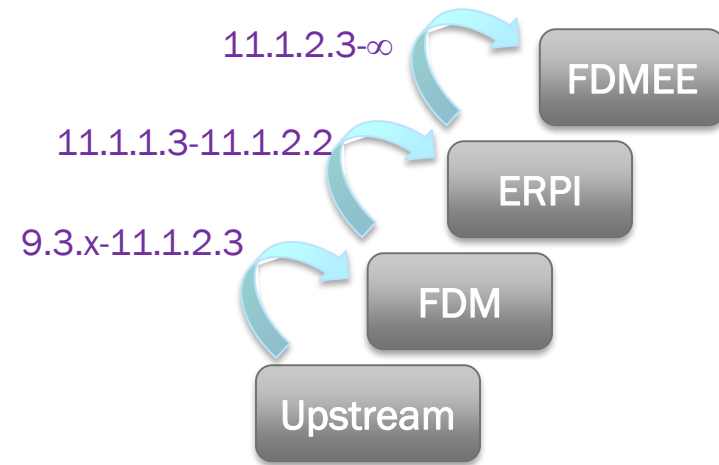




Where do we start?

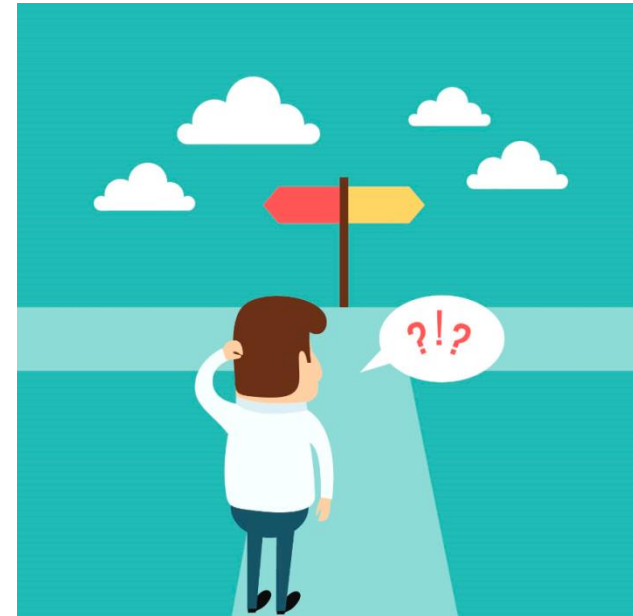
Current landscape

- **FDMEE 11.1.2.3.700**
 - FDM Classic and/or FDMEE (IE 11 support)
- **FDMEE 11.1.2.4 (Feb-2015)**
 - No FDM Classic available anymore
 - FDM > FDMEE migration is a must (99% parity)
- **Migration utility** released on Aug-2015
 - Built using ODI (standalone)
 - Migrate 1 target application at a time
 - FDM Classic 11.1.1.x/11.1.2.x > FDMEE 11.1.2.4
 - FDM Metadata (locations, mappings, control tables, etc.)
 - FDM Data (historical data, archived maps, process info)
 - Not included (audit information - TDATAARCHIVE, memo items, **security, Scripts**)
 - Some post-migration manual steps needed



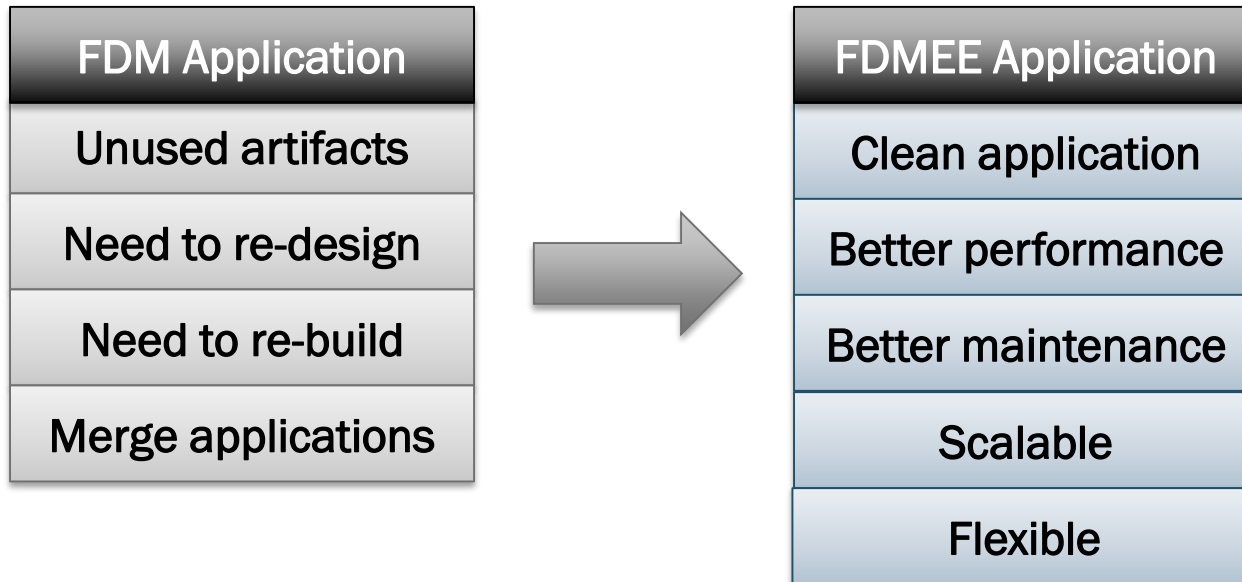
Where do we start?

- Remember about HE to HFM
- FDMEE is a new product
 - Understand new architecture
 - Understand new functionality
- Ready?
 - **Analyze** our FDM application(s)
 - **Key migration** drivers
 - **Design** FDMEE solution
 - Team **alignment** and **involvement**
 - Define a **migration plan**
 - If upgrading to FDMEE 11.1.2.3.x, you can keep FDM Classic as backup application
 - **Go!**



Our goal?

- Any change for the better 😊
- **Simplify** and clean
- **Learn** the product while we migrate
- Learn new technology (SQL, Jython, ODI, etc.)



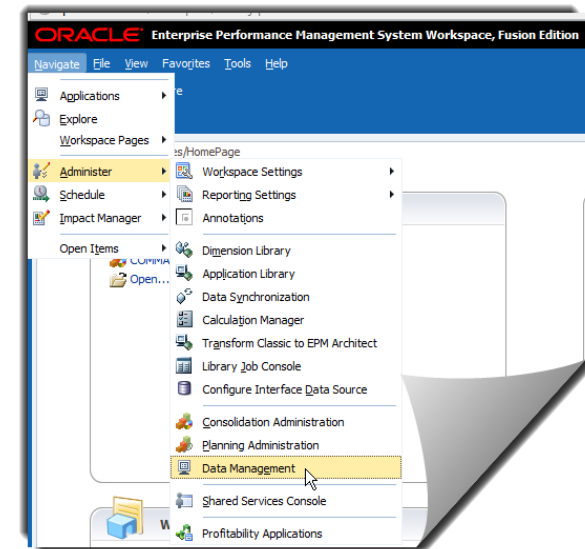
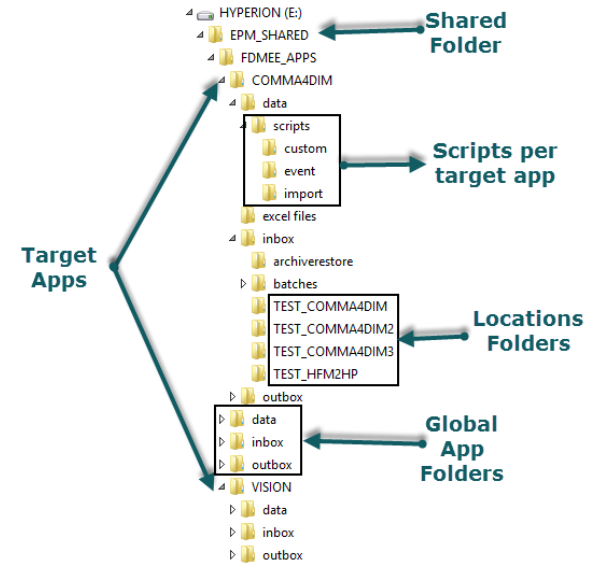
Review the EPM architecture

- WebLogic application stack
- High Availability (load balancing)
- Server architecture
- Windows or Linux?
- Only 1 database needed
- ODI is new component (11.1.1.7)
 - ODI J2EE agent automatically installed and configured
 - Install ODI Studio (recommended) in different ODI home
 - Assign resources to agent based on your work-load
- Tuning of WebLogic and ODI



FDMEE is a new product

- Yes we can!
- **New product architecture**
 - 1 FDMEE app Vs. multiple FDM apps
 - 1 TDATASEG
 - 1 TDATAMAPSEG
 - TDATASEG_T (temporary table)
 - No more Windows components
 - EPM Workspace (Data Management)
 - LCM support
 - FDMEE executes ODI Scenarios
 - Global and target app folder structure



Same fishes in a better sea

- Data Load Workbench (fish data grid enhanced)

The screenshot displays the SAP Data Load Workbench interface. The top navigation bar includes 'HomePage', 'Data Management', and a search field. The left sidebar contains a 'Workflow' section with 'Setup' and 'Tasks' (Data Load, Metadata, Other, Monitor). The main area is divided into 'Load Data' and 'Source Data' sections. The 'Load Data' section features a table with columns: Entity, Account, ICP, Product, Customers, Channel, UnitsFlows, and Amount. The 'UnitsFlows' column is sorted descending. The 'Source Data' section features a table with columns: Source-Entity, Source-Account, Source-ICP, Source-Product, Source-Customers, Source-Channel, Source-UnitsFlows, Amount, and Source Amount. The status bar at the bottom shows: Location TEST_COMMA4DIM, Period Jan-2005, Category Actual, Rule DLR_Test_Comma4Dim, Source File, Target COMMA4DIM.

Entity	Account	ICP	Product	Customers	Channel	UnitsFlows	Amount
EastSales	AccumDepr	[ICP None]	[None]	[None]	[None]	Decreases	100,000
EastSales	Cash	[ICP None]	[None]	[None]	[None]	Increases	-73,966
EastSales	Cash	[ICP None]	[None]	[None]	[None]	Movement	324,512

Source-Entity	Source-Account	Source-ICP	Source-Product	Source-Customers	Source-Channel	Source-UnitsFlows	Amount	Source Amount
EastSales	AccumDepr	[ICP None]	[None]	[None]	[None]	Decreases	100,000	100,000



Defining your approach

Migration Approach

- Review before migrate wins
- Take your time
 - Review your FDM application(s)
 - Analyze custom solutions (OTB in FDMEE?)
 - Mark as “to be re-designed”, “to be removed”, “to be re-built”...
 - Define your new requirements (batch, custom validations...)
 - Set priorities
 - With all this information → Define your migration plan
- Don't forget: this is the best stage to learn new things



Migration Plan (high level)

- Estimations vary based on existing application(s)
 - Was well designed?
 - Any mapping logic defined?
Complex? #locations?
#mappings?
- Does it have customizations?
Scripting?
- Performance issues?



x md



Gather requirements

Analysis of ASIS FDM application(s)

Re-design solution and application

Build the new application

Test & Data Reconciliation

Training and education

Same as FDM? new ones?

What can be improved?

Scalable, maintainable...

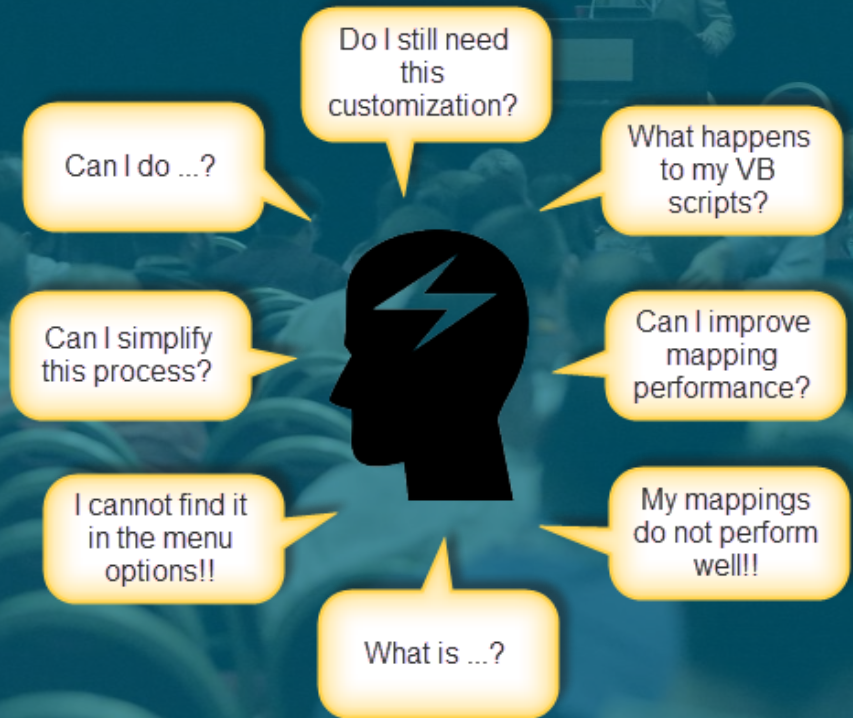
Knowledge transfer 😊

Involvement is essential

Making decisions (some examples)

What I have...	Decision A	Decision B
VB Scripts	Migrate to Jython? <ul style="list-style-type: none"> • Learn new technology • Enhancements • Technology alignment • Missing API functions 	Keep VB? <ul style="list-style-type: none"> • Need some rewrite to VB Script .NET • Platform dependent • Different languages for different script types • Stuck to the past
Conditional mapping scripts (source dims)	Multi-dimension mappings? <ul style="list-style-type: none"> • Better maintenance and performance • Flexibility and User friendly • Lookup dimensions 	Jython/SQL Scripts? <ul style="list-style-type: none"> • Less end-user friendly • Less scalable and maintainable
Conditional mapping scripts (target dims)	SQL scripts? <ul style="list-style-type: none"> • Better performance and easier syntax • Not for complex logics 	Jython Scripts? <ul style="list-style-type: none"> • Lower performance (line by line) • Suitable for complex logics
Integration Scripts	Event script? <ul style="list-style-type: none"> • Jython • Hard-code SQL statements • Not scalable 	ODI Project for OIA? <ul style="list-style-type: none"> • ODI knowledge • Scalable and flexible • Declarative design

Shooting range



Source and Target Systems

- **FDM target adapters > Target EPM Applications**
 - Pull and Tax adapters > Custom Application
 - Adapter options > Target Application options
 - Each target application is registered once
- **FDM source adapters**
 - Prepackaged integrations (EBS, PSFT, Fusion)
 - ODI scenarios delivered with the product (black box)
 - Source Adapters (OIA, JDE*, SAP*)
 - Customizable ODI projects delivered + regenerate ODI scenario

What I have in FDM Classic	How it would look in FDMEE
N Target adapters (different apps)	N target EPM applications registered
1 Target adapter (app 1) 1 Target adapter (app 1) Different adapter options	1 target EPM application registered Different DLRs with different target options

Source and Target Systems

- **HFM**

- Sticky server handled by registry and HFM server
- ICP transaction module integration
 - FDM: dedicated adapter (FMi)
 - FDMEE: additional dimensions (no additional application)

Application Details
* Name COMMA4DIM Type Financial Management Deployment Mode Classic

Dimension Details Application Options

View + Add - Delete Enable ICP Transactions Detach

Dimension Name	Target Dimension Class	Data Table Column Name
Conversion Rate	ICPTRANS	ATTR7
Transaction Currency	ICPTRANS	ATTR6
Entity Currency Amount	ICPTRANS	ATTR5
Transaction Date	ICPTRANS	ATTR4
Reference ID	ICPTRANS	ATTR3
Transaction Sub ID	ICPTRANS	ATTR2
Comment1	ICPTRANS	ATTR11
Transaction ID	ICPTRANS	ATTR1
Account	Account	ACCOUNT
Channel	Generic	UD3
Customers	Generic	UD2
Entity	Entity	ENTITY

Source and Target Systems

- **HP/Essbase/HPCM**

- Prefix dimension for duplicate members (Essbase/HPCM)
 - Dimension@Member
- Load Method (SQL or File)
- Calculation Scripts managed from the GUI (parameters)
 - Essbase Runtime Substitution Variables

```
SET RUNTIMESUBVARS  
{  
  Sce;  
  Acc;  
  Ent;  
  Cond1;  
}
```

Application Details
* Name Vision Type Planning Deployment Mode Classic

Dimension Details Application Options **Calculation Scripts**

View ▾ + Add ✗ Delete 📄 Detach

Script Name	Calculation Script Parameter	Script Scope	Scope Entity	Event	Sequence
CALC1		Application ▾		After Data Load ▾	10
CLEAR1		Application ▾		Before Data Load ▾	5

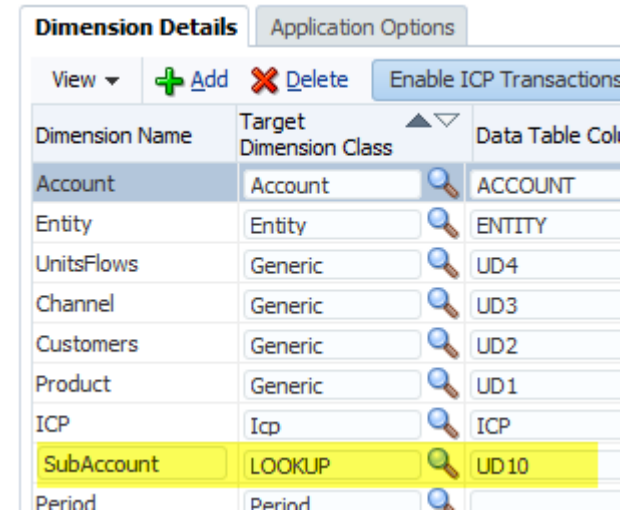
Calculation Script Parameters
Plan Type Plan1 ▾

View ▾ + Add ✗ Delete 📄 Detach

Script Parameters	Script Value	Custom
Cond1	Data Rule Option 1 ▾	
Ent	All Data Load Entity ▾	
Acc	Custom ▾	@RELATIVE("Balan
Sce	POV Category ▾	

Lookup dimensions

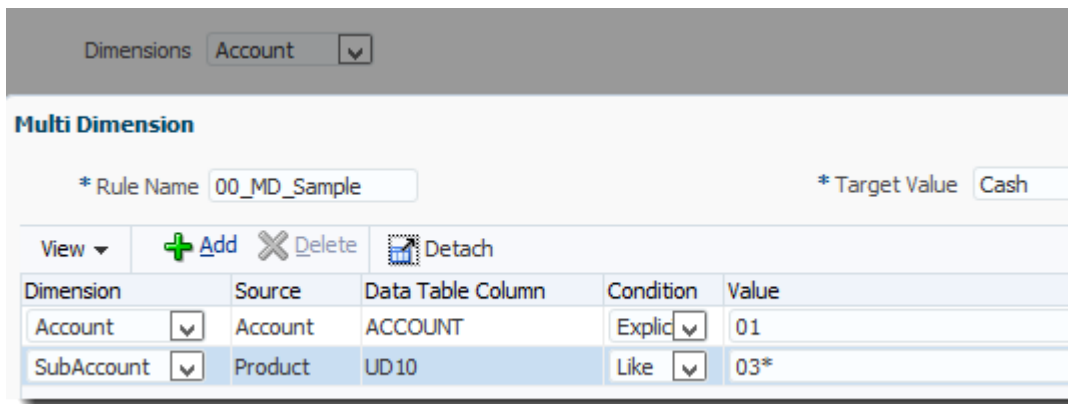
- Add flexibility to our solution
 - Conditional data loads
 - Multi-dimension mappings
 - Audit information
- Very useful for SAP integrations
- Mappable
- More user-friendly than FDM Classic



Dimension Details Application Options

View ▾ + Add ✕ Delete Enable ICP Transactions

Dimension Name	Target Dimension Class	Data Table Column
Account	Account	ACCOUNT
Entity	Entity	ENTITY
UnitsFlows	Generic	UD4
Channel	Generic	UD3
Customers	Generic	UD2
Product	Generic	UD1
ICP	Icp	ICP
SubAccount	LOOKUP	UD10
Period	Period	



Dimensions Account ▾

Multi Dimension

* Rule Name 00_MD_Sample * Target Value Cash

View ▾ + Add ✕ Delete Detach

Dimension	Source	Data Table Column	Condition	Value
Account ▾	Account	ACCOUNT	Explic ▾	01
SubAccount ▾	Product	UD10	Like ▾	03*

Import Formats

- Link between source system and target application
 - 1 import format can load into different apps with same dims
- Can import data into lookup dimensions
- ERP
 - Concatenate source segments
- File-based
 - Import scripts (Jython)
 - 3 types: delimited, fixed, and **multi-period**
 - **XLSX** supported (11.1.2.4+)
- Define the DLR type

Source	Target	DLR
ERP/File	EPM/Custom	Data Load
EPM	ERP/Custom	Write-Back
EPM	EPM	Data Sync

Data Load Rules

- Define the data extract (ex: filters)
- Options
 - **Source** (based on source system)
 - **Target** (based on EPM application)
 - 4 **custom** (free use)
- Process multi-period files
- Defined at location and category levels
- Can be **scheduled**, included in **batch definitions**, and executed from batch utility **loaddata**
- Can be seen as a **new component of the POV**

Location **TEST_COMMA4DIM** Period **Jan-2005** Category **Actual** Rule **DLR_Test_Comma4Dim**

Data Load Rules (file-based loads)

Data Load Rule

Data Rule Summary

View ▾ + Add ✕ Delete 🔄 Refresh » 📄 Detach Execute Schedule Cancel Schedule

Status	Name	Category	Description
✓	DLR_Test_Comma4Dim	Actual	Test data load rule
⚠	DLR_Test_Locked	Actual	Test LOV POCK at DLR level

Details

Name: DLR_Test_Comma4Dim
Category: Actual
File Type: Single Period Load
Description: Test data load rule
Target Plan Type: [empty]
Import Format: Test COMMA4DIM

Source Options | Target Options | Custom Options

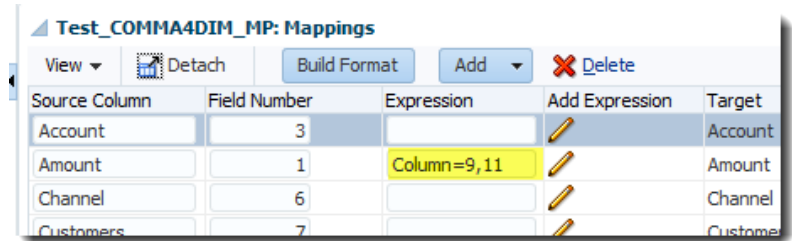
File Name: COMMA4DIM_Sample.Dat [Select]
Directory: inbox\TEST_COMMA4DIM
File Name Suffix Type: [empty]
Period Key Date Format: [empty]

Data Load Rules (file-based loads)

What?	FDM Classic	FDMEE
Process multiple single period files for same location at a time	<ul style="list-style-type: none"> Open batch Integration script 	<ul style="list-style-type: none"> 1 DLR with dynamic prefix for file names
Process multi-period files	<ul style="list-style-type: none"> Multi-load activity 	<ul style="list-style-type: none"> 1 DLR for multi-period files (contiguous/non-contiguous periods)
Files with different formats for same location	<ul style="list-style-type: none"> Multiple locations Override import format (script) 	<ul style="list-style-type: none"> 1 location Multiple DLRs Each DLR has an import format assigned
Different source files sharing some mapping tables	<ul style="list-style-type: none"> Different locations Custom solution to prefix data based on source file 	<ul style="list-style-type: none"> 1 DLR for each file Maps defined at DLR level for the mapping tables not shared
Import >1 files for same POV	<ul style="list-style-type: none"> Import in replace mode (lose audit) Append mode (re-process) 	<ul style="list-style-type: none"> 1 DLR for each file POV 1 = L1, C1, P1, DLR1 POV 2 = L1, C1, P1, DLR2

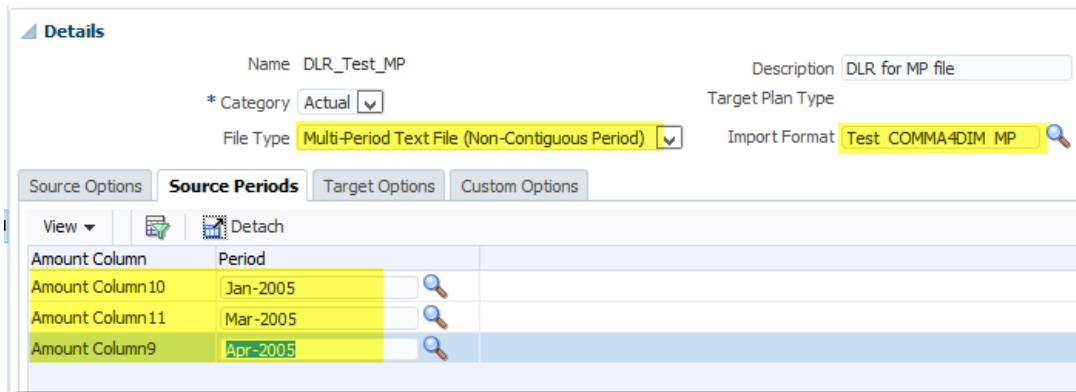
Multi-period files

- **Text** (import format)
 - No header
 - Import Format with Column=startCol,EndCol (Amount)
- **Excel** (dummy import format)
 - 1 location
 - Can't select different import/export/zero suppressing options for different periods
- **Contiguous or Non contiguous periods**
 - Different years are possible (DEC-14, DEC-15...)



A screenshot of a software interface showing a table titled "Test_COMMA4DIM_MP: Mappings". The table has five columns: "Source Column", "Field Number", "Expression", "Add Expression", and "Target". The "Expression" column for the "Amount" row is highlighted in yellow and contains the text "Column=9,11".

Source Column	Field Number	Expression	Add Expression	Target
Account	3			Account
Amount	1	Column=9,11		Amount
Channel	6			Channel
Customers	7			Customer

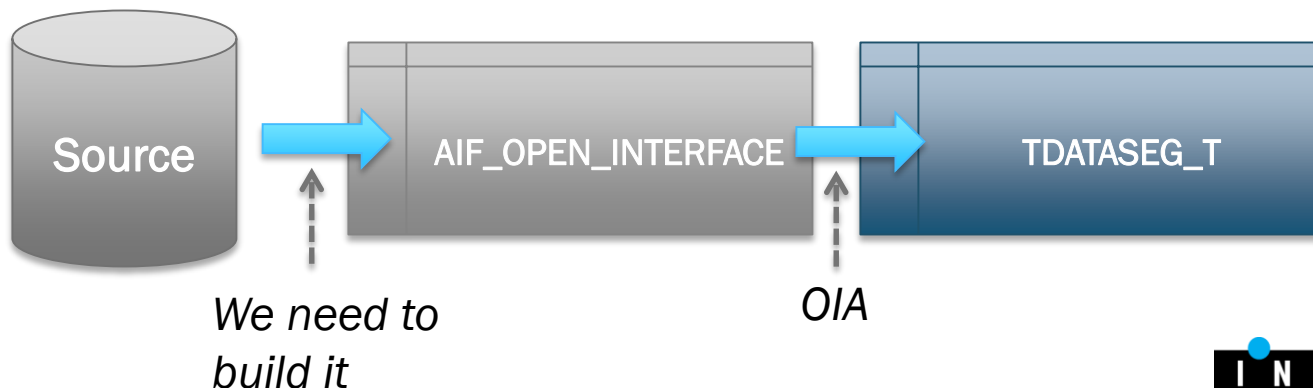


A screenshot of a software interface showing a "Details" window for "DLR_Test_MP". The window displays various settings including Name, Description, Category, File Type, and Import Format. Below these settings are tabs for "Source Options", "Source Periods", "Target Options", and "Custom Options". The "Source Periods" tab is active, showing a table with columns "Amount Column" and "Period".

Amount Column	Period
Amount Column10	Jan-2005
Amount Column11	Mar-2005
Amount Column9	Apr-2005

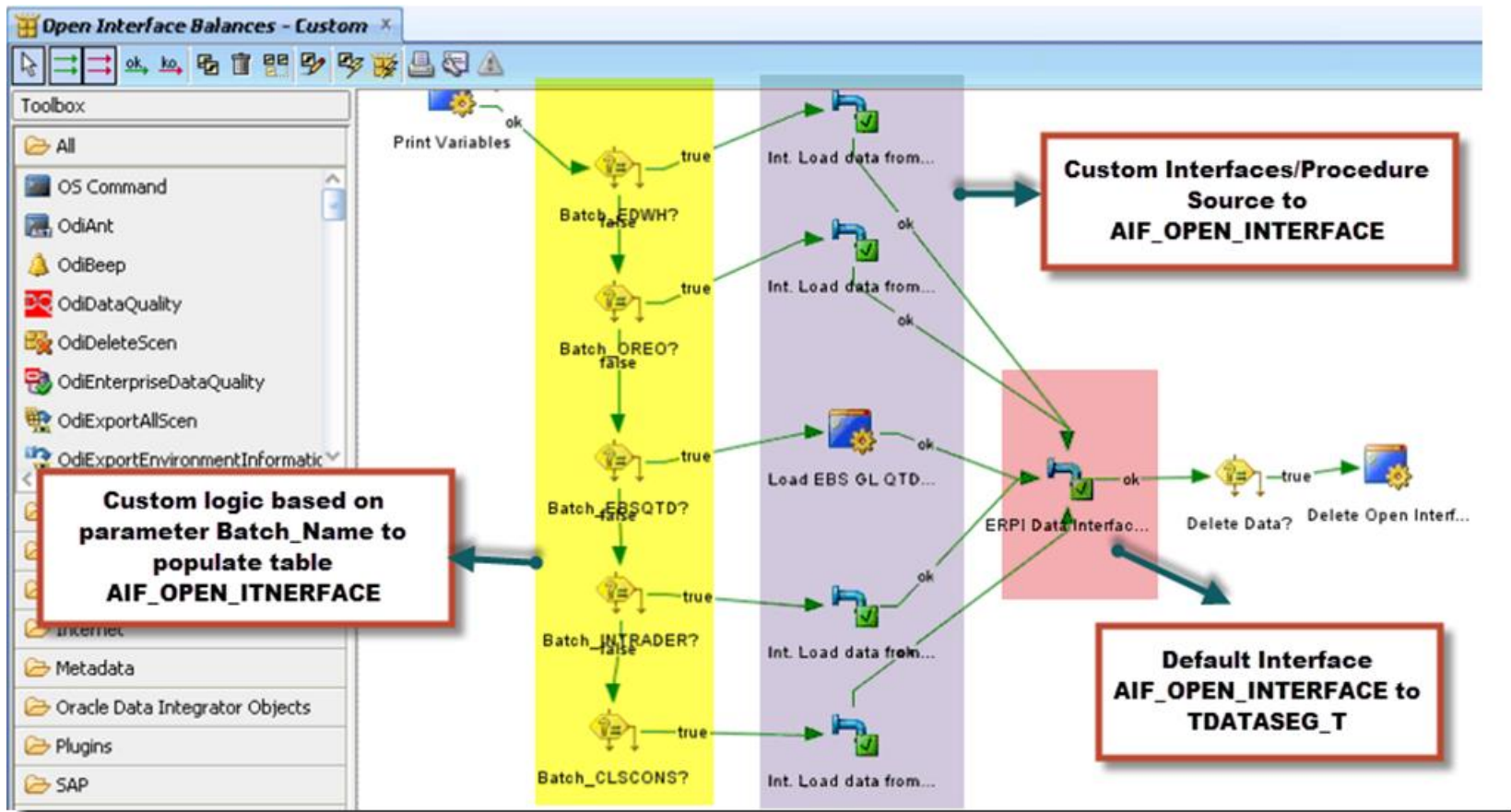
Integration Scripts

- No “Integration Script” type
- **Open Interface Adapter (OIA)**
- Goal: populate table AIF_OPEN_INTERFACE
 - BeflImport Script, modify OIA project in ODI, external tools...
- Batch_Name (multiple sources)
- Multiple periods
- Supports parameters and custom drill-thru URL
- PSU100 → Universal Adapter for Tables/Views



Integration Scripts

- Modify ODI Project for OIA



Location Security

- FDM old times → two step security
 - Provision user in HSS
 - Add user in FDM + grant locations
- **FDMEE**
 - HSS group templates with specific roles
 - Provision users in HSS
 - HSS Groups automatically created for new locations
 - Need some improvement from Oracle

Role Security | Location Security

View ▾ + Add ✕ Delete Detach Disable Security by location Maintain User Group

Name	Description	Prefix	Suffix
TEST_<LOCATION>_FDMEE	Test template	TEST	FDMEE

Security Setting Details

Name	TEST_<LOCATION>_FDMEE	Description	Test template
Prefix	TEST	Suffix	FDMEE
Create Integration	<input type="checkbox"/>	Run Integration	<input type="checkbox"/>
Drill Through	<input type="checkbox"/>	HR Integration	<input type="checkbox"/>
Intermediate 2	<input checked="" type="checkbox"/>	Intermediate 3	<input type="checkbox"/>
Intermediate 4	<input type="checkbox"/>	Intermediate 5	<input type="checkbox"/>

Name	Description
Finance Management	
TEST_TEST_COMMA4DIM_FDMEE	Test template
TEST_TEST_HFM2HP_FDMEE	Test template
TEST_TEST_HSS_FDMEE	Test template

Mappings

- Review mapping logic... you will appreciate it
- Multi-dimension mapping (Src dim <> Tgt dim)
- Mapping Scripts (Jython vs. **SQL**)
- Can be defined at DLR level
- Fix mappings on the fly (11.1.2.4+)
- Sequence map not available (rule name order)

The screenshot displays the 'Data Load Mapping' interface. At the top, there are tabs for 'All Mappings', 'Explicit', 'Between', 'In', 'Multi Dimension', and 'Like'. Below these are buttons for 'View', '+ Add', 'X Delete', 'Detach', 'Validate', and 'Refresh'. The main area shows a 'Dimensions' dropdown set to 'Account'. Two boxes highlight options: 'Current Dimension' (with sub-options 'All Dimensions' and 'Export To Excel') and 'Current Dimension' (with sub-options 'All Dimensions', 'Import From Excel', and 'Download Excel Template'). Below this is another set of tabs: 'All Mappings', 'Explicit', 'Between', 'In', 'Multi Dimension', and 'Like', with buttons for 'View', 'Export', 'Import', 'Restore Mapping', 'Delete Mappings', and 'Delete All Mappings'. A table at the bottom shows mapping details:

Type	Source Value	Target Value	Rule Name	Description
Like	*	*	99_All	All

An inset window shows a detailed view of a mapping rule. It has tabs for 'All Mappings', 'Explicit', 'Between', 'In', 'Multi Dimension', and 'Like'. Below these are buttons for 'View', '+ Add', 'X Delete', 'Detach', 'Validate', and 'Refresh'. The main area shows a 'Source Value' field with the text 'ACCOUNT=[10*] AND ENTITY=[EastSales] AND ICP=[ICO]' and an 'Edit' button. The 'Target Value' field contains 'Cash_ICO_ES'.

Excel Interface

- FDM Classic
 - Table Editor (non secure)
 - Import XLS (ups range, just add new records)
- FDMEE (11.1.2.4+)
 - Export/import data of any table in the FDMEE database
 - **Includes custom tables** 😊
 - XLSX not supported
 - Import XLS approach

The screenshot shows the 'Excel Interface' web application and an Excel spreadsheet. The web interface has three sections: 'Download To Excel' with a dropdown menu set to '* Entity Type Location' and a 'Download' button; 'Upload From Excel' with a file input field and a 'Select' button; and 'Status' with a 'Clear' button. The status text reads: 'Table name: TPOVPARTITION', 'Columns: [PARTITIONKEY, PARTNAME, PARTDESC, PARTNOTES, PARTLASTIMPF, PARTLASTEXPF, PARTIMPGROUP, PARTLOGICGROUP, PARTVALGROUP, PARTVALENTGROUP, PARTCURRENCYKEY, PARTPARENT, PARTTYPE, PARTSEQMAP, PARTDATAVALUE, PARTSEGMENTKEY, PARTCONTROLSTYPE, PARTCONTROLSGROUP1, PARTCONTROLSGROUP2, PARTCONTROLSAPPROVER, PARTCONTROLSAPPROVERPROXY, PARTCONTROLSREDFLAGLEVEL, PARTLOGICGROUP, PARTINTGCONFIG1, PARTINTGCONFIG2, PARTINTGCONFIG3, PARTINTGCONFIG4, PARTADAPTOR, PARTSOURCESYSTEMID, PARTSOURCECELEDGERID, PARTTARGETAPPLICATIONID, PARTPARENTKEY, PARTSOURCEAPPLICATIONID, PARTTARGETSYSTEMID]', and 'Retrieving and writing data to file. Download data complete. File exported successfully.'

The Excel spreadsheet below shows the data for the 'TPOVPARTITION' table. The columns are: PARTITIONKEY, PARTNAME, PARTDESC, PARTNOTES, PARTLASTIMPF, PARTLASTEXPF, PARTIMPGROUP, PARTLOGICGROUP, PARTVALGROUP, PARTVALENTGROUP, and PARTCURRENCYKEY. The data row shows: 2, TEST_COMMA4DIM, Test Comma4Dim, and [NONE] for the remaining columns.

1	A	B	C	D	E	F	G	H	I	J	K
2	PARTITIONKEY	PARTNAME	PARTDESC	PARTNOTES	PARTLASTIMPF	PARTLASTEXPF	PARTIMPGROUP	PARTLOGICGROUP	PARTVALGROUP	PARTVALENTGROUP	PARTCURRENCYKEY
3	2	TEST_COMMA4DIM	Test Comma4Dim				Test_COMMA4DIM	[NONE]	[NONE]	[NONE]	[NONE]
4											
5											

EPM Data Synchronization

- Sync and map data between EPM apps (A<>B, A=B)
- Source filters (member selector functions)
- Extract data at **any level**

Details

Name: DLR_Vision_Extract
Description: Extract data from Vision applic
* Category: Actual
* Period Mapping Type: Explicit
Target Plan Type
* Source Plan Type: Plan1

Source Options | Target Options | Custom Options

Source Filters

Dimension Name	Filter Condition	Select
Entity	"000"	...
Account	@ILvl0Descendants("Total Cash Flow")	...

Source Parameters

Property Name	Value	Select
Extract Dynamic Calculated Data	Yes	...
Data Precision	10	
Data Number of Decimal	2	

Member Selector

Dimension: Account
Plan Type: Plan1
Refresh Members

Tree View

Member List

- Account
 - Statistics
 - Revenue Driver Assumptions
 - Expense Driver Assumptions
 - Capital Expenditures
 - Misc Drivers
 - LRP Drivers
 - Alia
 - CF
 - Cash Ending Balance
 - Total Cash Flow
 - Cash Beginning Balance
 - Cash Flow Hierarchies
 - Accrued Liabilities Total

Selected Members

- Account
 - @ILvl0Descendants("Total Cash Flow")

Rows Selected: 1

OK Cancel

Scripting



- FDM Classic
 - VB Script
 - Overlapped API (RES, API, DW)
 - Poor Error Management
 - Workbench Client
- FDMEE
 - **Jython (2.5.1)** and VB Script .NET
 - JAVA API condensed
 - Not all event script available
 - Custom script allows parameters
 - Eclipse (PyDev), Notepad++, Visual Studio, etc.

Script	Language
Import	Jython
Event	Jython or VB
Custom	Jython or VB
Mapping	Jython or SQL
Drill-Thru	JavaScript
Logic Acc	Jython
Check Rules	Jython

Scripting

- Migrating scripts
 - Line by Line = bad approach → FAIL
 - **Migrate the solution, not the code**
 - Jython can use JAVA classes (JAVA does everything)
 - New language but very intuitive
 - Not 100% event scripts and API parity with FDM
 - Re-design (other event script, create your own API)
 - Import scripts
 - Jython global variables replace FDM PVarTempX
 - Multi-dimension mappings will help to get rid of FDM scripts

Additional information

- Locations hierarchy planned for PSUx
- Object security level not fully implemented (currently security defined at screen level)
- Crystal reports replaced by BIP templates
- Set log level to 5 when developing and testing > learn
- +11.1.2.4 server logs split (aif-WebApp-log)
- Learn how to use [Query by Example](#) 😊



Smurfit Kappa Group, it's just an example among others

Introduction

- Europe's leading corrugated packaging company and one of the leading paper-based packaging companies in the world
- The requirements (after analysis)
 - ☑ Replace FDM with FDMEE (temporarily parallel)
 - ☑ Clean unused artifacts (locations, import formats, etc.)
 - ☑ Redesign import scripts logic as mapping logic
 - ☑ **Redefine mapping scripts as Multi-dimension maps**
 - ☑ Minimize use of import and mapping scripts
 - ☑ Add import validation for SAP entities
 - ☑ **Auditable import process for movement calculation**
 - ☑ **Merge locations partially sharing dimension maps**
 - ☑ Improve performance and user experience

Multi-dimension mappings

- ICP mapping based on source account

Field Name	Start	Length	Expression
Source FM Account	1	6	
Account Description	17	31	
Amount	70	41	Script=SpainBS_GetEntity2.uss
Source FM Entity	1	4	Script=SpainBS_PutEntity.uss
Skip	1	48	
Source Custom2	1	6	Script=SpainTB_Get_Custom2.uss
Source Custom3	0	0	None
Source Custom4	0	0	None
Source Custom1	1	6	Script=SpainTB_Get_Custom1.uss
Source ICP	1	6	Script=SpainTB_Get_ICP.uss

Source Column	Start	Length	Expression	Add Expression	Target
Closing Balance	112	20			Attribute4
					Balance Type
					Custom1
					Custom2
					Custom3
					Custom4
Acc_Description	17	31			Description 1
Entity	1	4	Script=Oracle_Spain_SetEntity.py		Entity
					ICP

Source ICP	Description	Target ICP
629320		OFIBV

Data Load Mapping

Dimensions: ICP | Data Table Column: ICP | Parent Location: Oracle_Master

All Mappings | Explicit | Between | In | **Multi Dimension** | Like

View | + Add | X Delete

Multi Dimension

* Rule Name: 001_OFIBV_Except | * Target Value: OFIBV

Dimension	Source	Data Table Column	Condition	Value
Account	Account	ACCOUNT	Explicit	629320

Source Value

ENTITY=[SPCOC]

ACCOUNT=[629320]

ACCOUNT=[629360]

ACCOUNT=[663030]

ACCOUNT=[763030]

ACCOUNT=[621820]

ACCOUNT=[522030 OR 522040]

Multi-dimension mapping for ICP

SQL Mapping Scripts

- Jython: row by row, like VB scripts (#SCRIPT)
- SQL: **best performance**, all rows updated in 1 statement (#SQL)

```
If varValues(14) = "CRO1050" or varValues(14) = "PLA1060" Then  
    Result = "RET"  
ElseIf varValues(14) = "SHP1020" Then  
    Result = "IAP"  
Else  
    Result = "[None]"  
End If
```



```
Script CASE  
    WHEN ACCOUNTX IN ('CRO1050','PLA1060') THEN 'RET'  
    WHEN ACCOUNTX = 'SHP1020' THEN 'IAP'  
    ELSE '[None]'  
END
```

Merging Locations

- 2 locations sharing all mapping tables except Entity
 - Same source entity codes but different HFM entities
 - Same users
 - **Maintain duplicated mapping tables ☹️**

Dimension: Type:

Source FM Entity	GL Center Desc	Target FM Entity
00	CBC	MXBSC
02	CBCS	MXGSC
03	Packaging Group Services	USPGS
10	Tijuana	MXTJC
20	Juarez	MXJZC
21	PS Juarez	MXPJC
30	Mexicali	MXMXC
40	PS Tijuana	MXPTC
50	Nogales	MXNGC
60	Tooling	MXTOC
70	Nuevo Laredo	MXNLC
71	Monterrey-Corrugados	MXMTC

Dimension: Type:

Source FM Entity	GL Center Desc	Target FM Entity
00	LCP	MXBSL
02	LPCmgs	MXGSL
03	LPCpgs	MXPGS
10	LPCTijuana	MXTJL
20	LPCJuarez	MXJZL
21	LPCpsjz	MXPJL
30	LPCMexicali	MXMXL
40	LPCpstj	MXPTL
50	LPCNogales	MXNGL
60	LPCTooling	MXTOL
70	LPCNuevo Laredo	MXNLL
71	Monterrey-La Presa	MXMTL

Merging Locations

- **Solution**

- Define one location (merge of two FDM locations)
- 2 data load rules (one for each source)
- Define entity mappings based on data load rule

Data Load Mapping Save Ce

Dimensions Data Table Column ENTITY

All Mappings **Explicit** Between In Multi Dimension Like

View + Add - Delete 🔍 Detach ✓ Validate 🔄 Refresh Values

Source Value	Target Value	Description	Apply to Rule
00	MXBSC	CBC	DLR_Integra_MXCBC
00	MXBSL	LPC	DLR_Integra_USLPC
02	MXGSC	CBCS	DLR_Integra_MXCBC
02	MXGSL	LPCmgs	DLR_Integra_USLPC
03	USPGS	Packaging Group Services	DLR_Integra_MXCBC
03	MXPGS	LPCpgs	DLR_Integra_USLPC
10	MXTJC	Tijuana	DLR_Integra_MXCBC
10	MXTJL	LPCTijuana	DLR_Integra_USLPC
20	MXJZC	Juarez	DLR_Integra_MXCBC

Location **Integra_MXPKG** Period **Nov-2014** Category **ACTUAL** Source **File** Target **SKG**

Calculating movements

- Some locations deliver files with multiple balances
 - Opening, Debits, Credits and Closing
- HFM amount calculated based on account
- **Objective:** not to lose audit trail after calculation

04-SESA		Balance de Comprobación - Divisa Total		Fecha: 03-SEP-2014 11:57	
		Periodo: Agosto-14		Pág.: 1 de 9	
Divisa: EUR					
Tipo de Saldo: Saldo Acumulado Anual					
Rango Planta: 04U A 04Z					
L.M.: 04-SESA					
Planta: 04-04U RECYCLING DEPOT					
		Opening Balance	Debits	Credits	Closing Balance
Cuenta	Descripción	Saldo Inicial	Cargos (D)	Abonos (H)	Saldo Final
222000	Instalaciones Técnicas	222.333,55	0,00	0,00	222.333,55
223000	Maquinaria	150.222,25	0,00	0,00	150.222,25
228000	Elementos de Transportes	55.000,00	17.963,00	0,00	72.963,00

Calculating movements

- **FDM**

- ☹ Amount calculated in the import scripts (↓ performance)
- ☹ Hard to maintain new accounts in scripts
- ☹ Only the HFM amount was imported
- ☹ Once data is imported...we don't have audit trail

```

Select Case CheckAccount4
  Case "4752", "6815"
    CloseVal = "Move"
End Select

Select Case CheckAccount6
  Case "140000", "140100", "173001", "252010", "258000", "470900"
    CloseVal = "Move"
End Select

If CloseVal = "Close" Then
  SpainBS_GetEntity2 = GetAmount
ElseIf CloseVal = "Move" Then

If IsNumeric(DRCol) And IsNumeric(CRCol) Then
  SpainBS_GetEntity2 = DRCol-CRCol
ElseIf IsNumeric(DRCol) And IsNumeric(CRCol) = False Then
  SpainBS_GetEntity2 = DRCol
ElseIf IsNumeric(DRCol) = False And IsNumeric(CRCol) Then
  SpainBS_GetEntity2 = "-" & CRCol
Else
  SpainBS_GetEntity2 = ""
End If
  
```

Close or Move based source account

HFM Amount based on balance type

50-502	131000	Subvenciones de Capital	None	131000	None	None	None	2,873.55
50-502	140100	Provisiones para Pensiones No D	None	140100	None	None	None	
50-502	222000	Instalaciones Técnicas	None	222000	None	None	None	



Calculating movements

- **FDMEE**
 - Use lookup dimension **“Balance Type”** (only for FDMEE)

Dimension Name	Target Dimension Class	Data Table Column Name
Account	Account	ACCOUNT
Balance Type	LOOKUP	UD10

- **Multi-dimension maps** based on source account (Close/Move)

Data Load Mapping Save

Dimensions: **Balance Type** Data Table Column: UD10 Parent Location: Oracle_Master

All Mappings Explicit Between In Multi Dimension Like

View ▾ Export ▾ Import ▾ Restore Mapping Delete Mappings Delete All Mappings Detach

Type	Source Value	Target Value	Rule Name	Description
Explicit	Adjustment	Adjustment		Data loaded via journal template
Like	*	Close	99_Close	Closing Balance
Multi Dimension	ACCOUNT=[140000,140100,173001,252010,258...	Move	00_Acc_Explicit	Check Accounts - Explicit
Multi Dimension	ACCOUNT=[4752* OR 6815*]	Move	05_Acc_Prefix_4	Check Accounts - Prefix 4chars
Multi Dimension	ACCOUNT=[130* OR 131* OR 136* OR 137* OR...	Move	10_Acc_Prefix_3	Check Accounts - Prefix 3 chars
Multi Dimension	ACCOUNT=[10* OR 11* OR 12* OR 22* OR 28*...	Move	15_Acc_Prefix_2	Check Accounts - Prefix 2 chars

Calculating movements

- Better maintenance
- New accounts easily added
- Audit trail HFM > Source

The screenshot displays the SAP HFM interface. At the top, the 'Point of View' is set to 'Scenario: Actual', 'Year: 2014', 'Period: Nov', and 'View: <Scenario View>'. The main table shows a hierarchy of accounts with values for 2014 (Nov and Dec) and 2015 (Jan). A context menu is open over the table, listing actions such as 'Cell Text', 'Calculate', 'Force Calculate Contribution', 'Lock', 'Unlock', 'Manage Process', 'Source Transactions', 'Destination Transactions', 'Entity Details', 'Cell History', 'Run EPU', 'Force EPU', 'Copy', and 'Drill'. The 'Drill' option is selected, and a sub-menu is visible with the option 'Drill Through to Source'. Below the main table, a 'Drill Through Details' section is shown, containing a table with columns for 'Account Description', 'Entity-Entity', 'Account-Account', 'Source Amount', 'Open Balance', 'DR Balance', 'CR Balance', and 'Closing Balance'. The table contains three rows of data, with the second row highlighted in blue.

Account Description	Entity-Entity	Account-Account	Source Amount	Open Balance	DR Balance	CR Balance	Closing Balance
Compras de Pallets Nuevos	04-043	602620					
Compras de Pallets Recuperados	04-043	602621	364,848.52	0,00	748.151,73	383.303,21	364.848,52
Var.Exist.Pallets	04-043	612620					

Highlights

- Not purely technical migration
- Review the solution before migrating
- Simplify the design
- Use OTB functionality
- Scripts? Don't see as a nightmare but good opportunity to learn...in case they are needed 😊

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Q&A

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"Give a man a fish you have fed him for today. Teach a man to fish and you have fed him for a lifetime"

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Thank you!

