

Hyperion Focus 2015

Integrating SAP with Hyperion

Graham Day

EPM FastTrack



Agenda



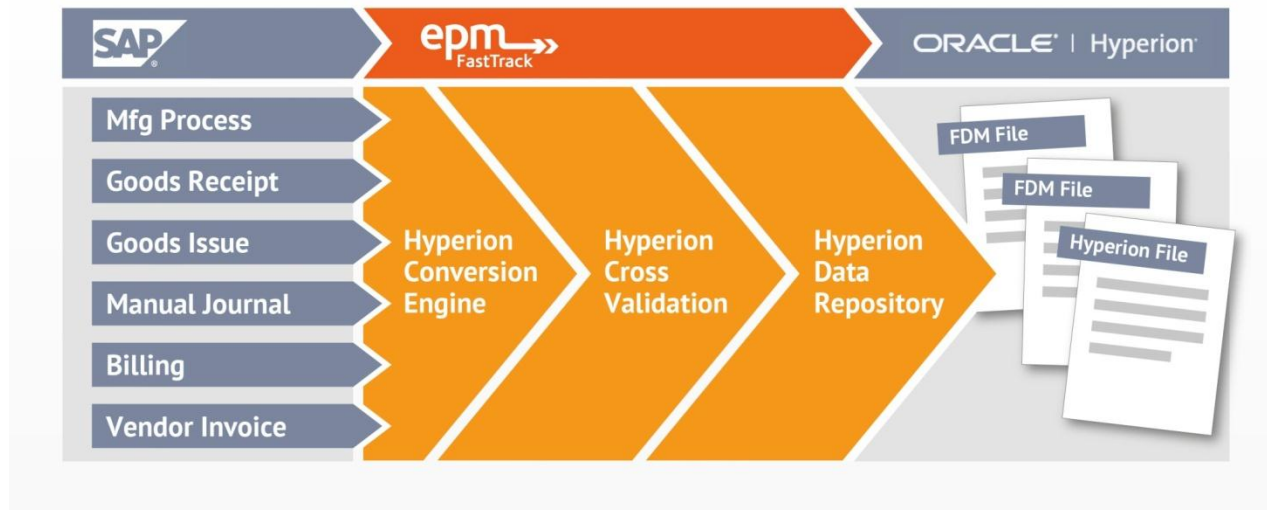
- ❑ Walkthrough Functionality
- ❑ Experiences of Stanley Black & Decker
- ❑ Questions

What is EPM FastTrack?

- ❑ Fully reconciled Hyperion data within SAP
- ❑ Transforms SAP finance data into corresponding Hyperion data. Validates it, all in 'Real Time'.
- ❑ Reconciles down to transaction level
- ❑ It's NOT a black box solution / NOT a complex BW transformation / NOT a long running month end job

What is EPM FastTrack?

Developed with the experience of integrating SAP and Hyperion EPM at a number of global blue chip organisations, EPM FastTrack is an SAP-based product designed for finance users that enhances the integration between SAP and Hyperion.



Why EPM FastTrack?



- ❑ More than 4000 enterprises around the world use Oracle Hyperion Enterprise Performance Management (EPM) solutions in combination with SAP ERP systems.
- ❑ A significant challenge faced by these companies is the integration between the two environments and the ability to prepare and extract data from the SAP transaction systems for use in the management reporting and analytical solutions in Hyperion EPM (Hyperion Financial Management, Hyperion Planning, Essbase and other related applications).



Current Practice is full of Inefficiencies



- ❑ Reliance on manual processes and controls
- ❑ High concentration of effort during period close
- ❑ Data errors discovered late in the closing process
- ❑ Reconciliation requires significant time and effort
- ❑ Obscure audit trail
- ❑ Ownership does not rest with Finance

EPM FastTrack delivers.....



- Real Time Translation and Validation
- Increased Scope of Data
- Business Ownership of Mapping and Validation Rules
- Reconciliation
- Audit Trail and Visibility
- Enhanced Trust in Data
- Rapid Deployment Tools
- Realignment Tool for mass data changes

Common Financial Close Issues



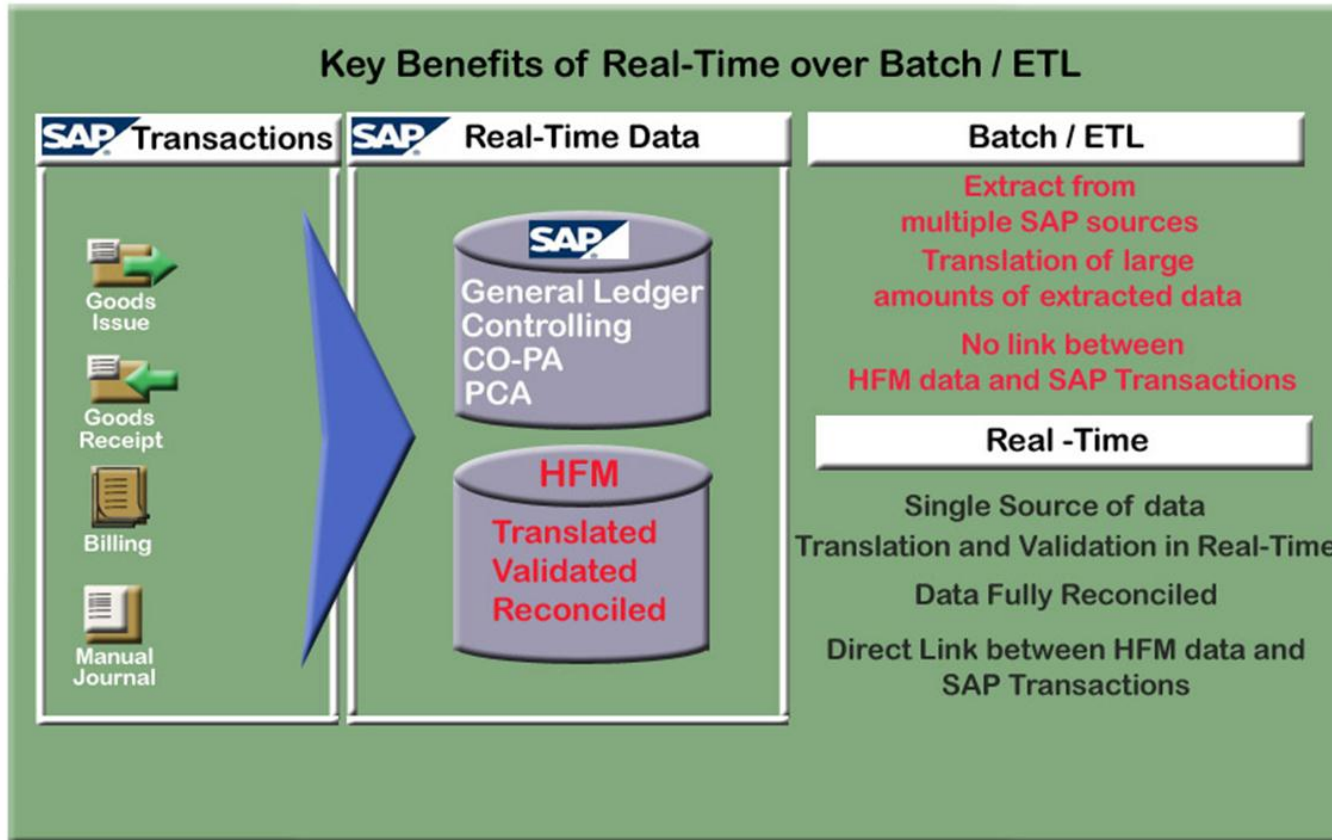
- ❑ Reconciliation
 - ❑ Time involved in reconciling SAP and Hyperion data
- ❑ Lack of trust in Financial Data
 - ❑ Do Finance trust the data?
- ❑ Transparency
 - ❑ No clear link between the Hyperion data and the SAP transactions
- ❑ Source SAP data
 - ❑ SAP Financial data is held in multiple sources
- ❑ Heavy Month End Workload
 - ❑ Key Financial Close procedures occurring at Month End
- ❑ Batch / ETL Processing
 - ❑ Inefficient and prolonging the Month End process

How EPM FastTrack addresses these issues

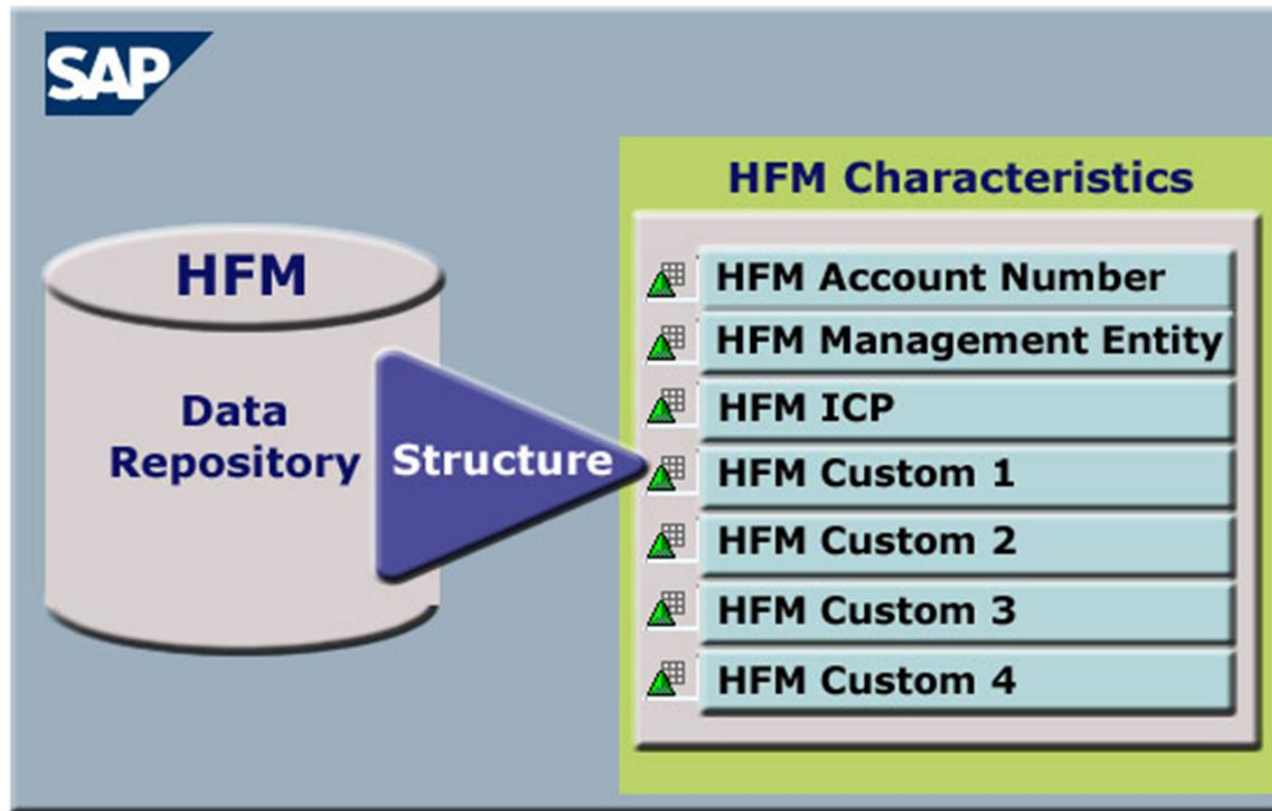


- ❑ Reconciliation
 - ❑ Fully reconciled “Record to Report” flow
- ❑ Lack of trust in financial data
 - ❑ Hyperion data translated and validated at point of posting in SAP
- ❑ Transparency
 - ❑ Hyperion data linked to the underlying SAP transactions
- ❑ Multiple SAP data sources
 - ❑ “Single Source” for the Hyperion data held in SAP
- ❑ Heavy Month End Workload
 - ❑ Streamlining of monthly reporting process
- ❑ Batch / ETL Processing
 - ❑ Effectively removed – real time reporting dramatically reduces month end processing

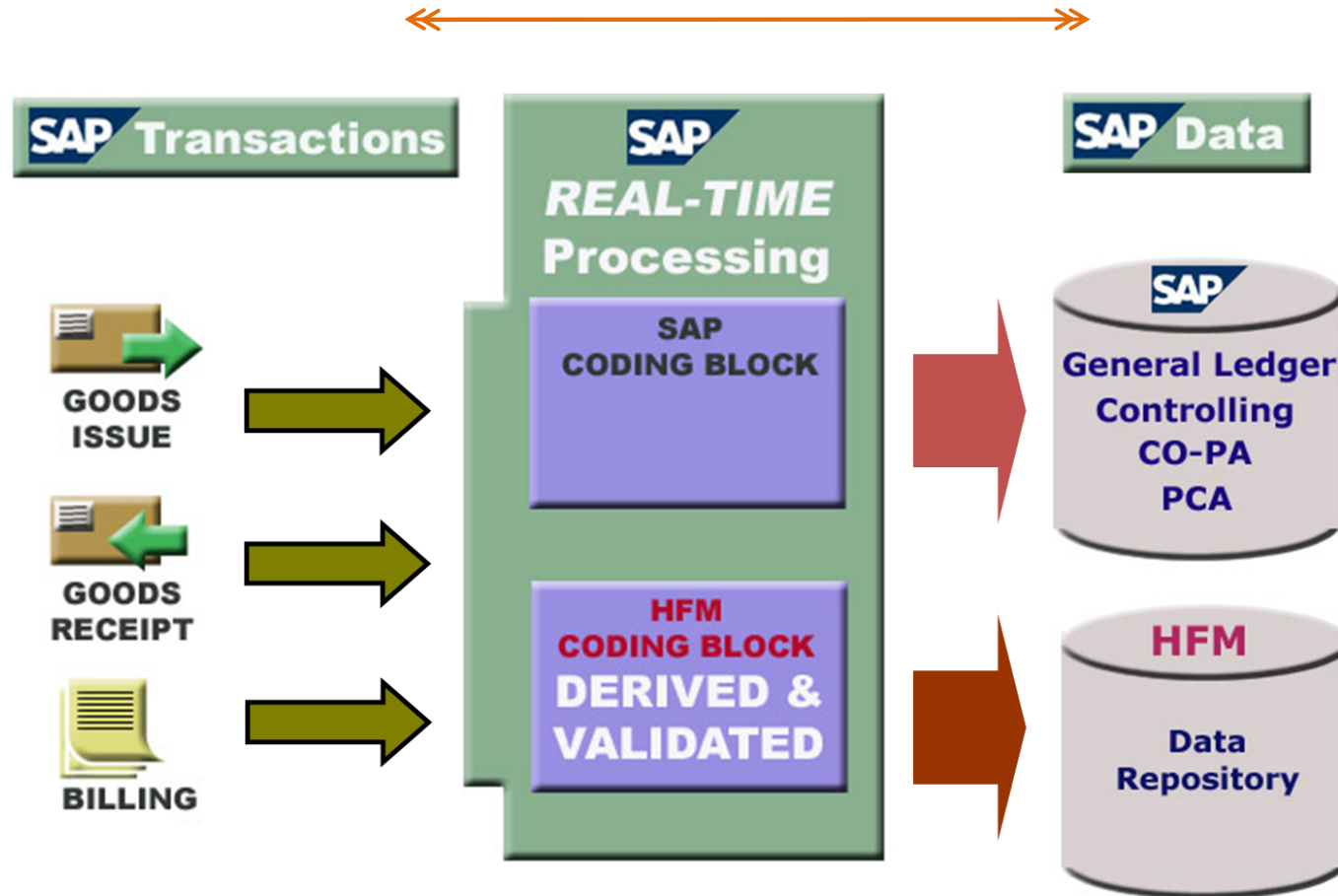
The Benefits of Real Time v ETL/Batch



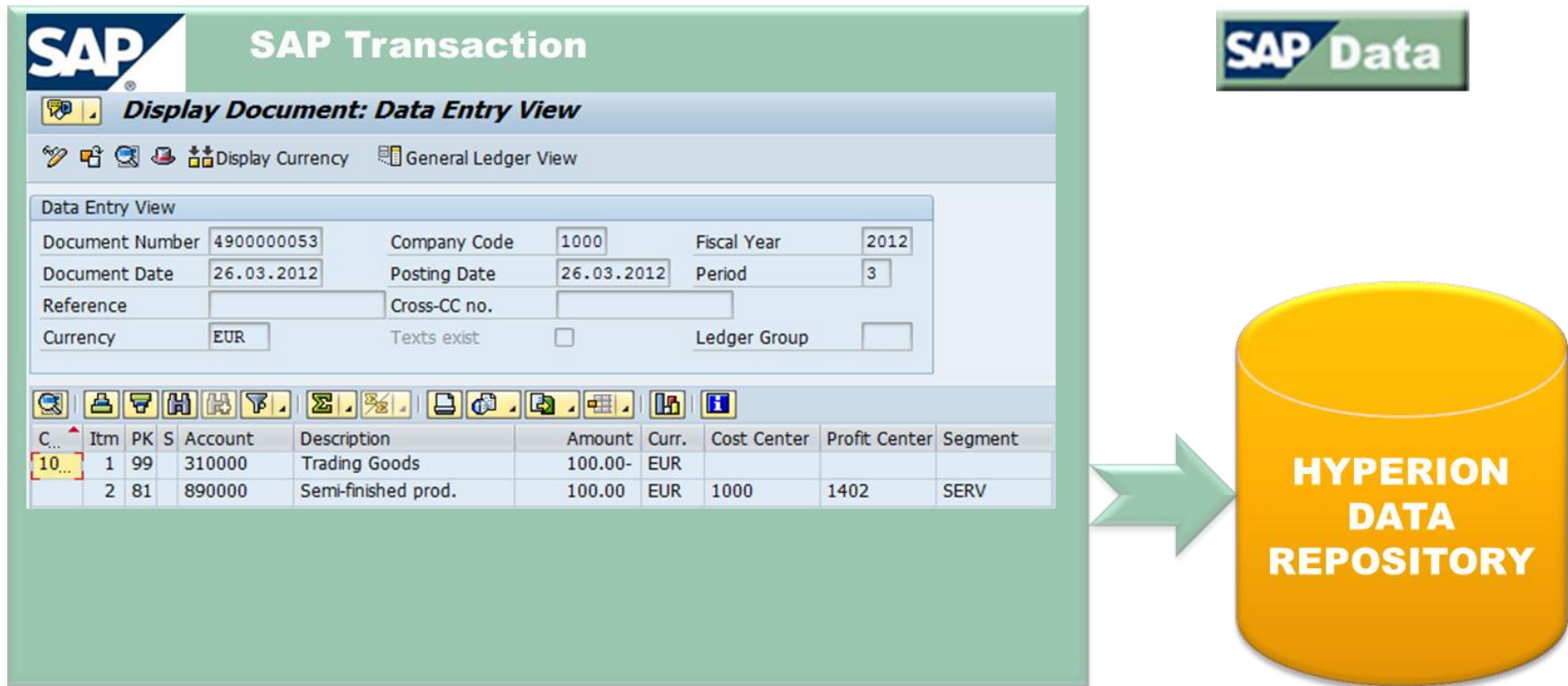
Hyperion data created in real time in SAP



Hyperion data validated at time of posting



Full record-to-report flow



SAP Transactions update Hyperion Data Repository in SAP



Enhancing SAP Hyperion Integration

Full record-to-report flow

SAP Hyperion Repository Document

Hyperion Document Display

Hyperion Demo Book
Environment HYP

Document Number	490000053	Company Code	1000 IDES AG	User Name	STUDENT023
Posting Date	26.03.2012	Document Type	WA	Entry Date	04.09.2014
Transaction currency	EUR Euro	Fiscal Year	2012	Time of Entry	14:08:39
		Posting period	3		


Derivation

Account	Descr. Account	TC Amount	LC Amount	Loc.Acct.	HFM Entity	Descr. HFM Entity	MjrPrdGrp	Descr. MjrPrdGrp	NDV Code	Descr. ND
16000	TradingGds	100.00-	100.00-	310000	B1	Company B1	MECH	Mechanical		
62000	CogsTP	100.00	100.00	890000	B1	Company B1	MECH	Mechanical		
		0.00	0.00							


Transaction Type	MKPF
Description	Material document
Original Document	4900050772
Ref. Organization	2012

Hyperion Repository Document contains all required Hyperion Characteristics

Full record-to-report flow



Hyperion Repository Document

 Derivation

Characteristic Derivation: Analyze Derivation Steps

0001 Derivation rule Hyperion Entity Derivation

Derivation carried out.

Source fields

Origin	Field Name	Description	Content	Comments
ITEM	BUKRS	Company Code	1000	

Access date 26.03.2012

Target fields

Origin	Field Name	Description	Content before	Content after	Comments
TARGET	RZZ300	HFM Entity		BI	

0002 Derivation rule Hyperion Function
 0003 Derivation rule Hyperion Movement Type
 0004 Derivation rule Hyperion Major Product Group

Derivation carried out.

Source fields

Origin	Field Name	Description	Content	Comments
ITEM	MATNR	Material Number	I-M500A00	

Access date 26.03.2012

Target fields

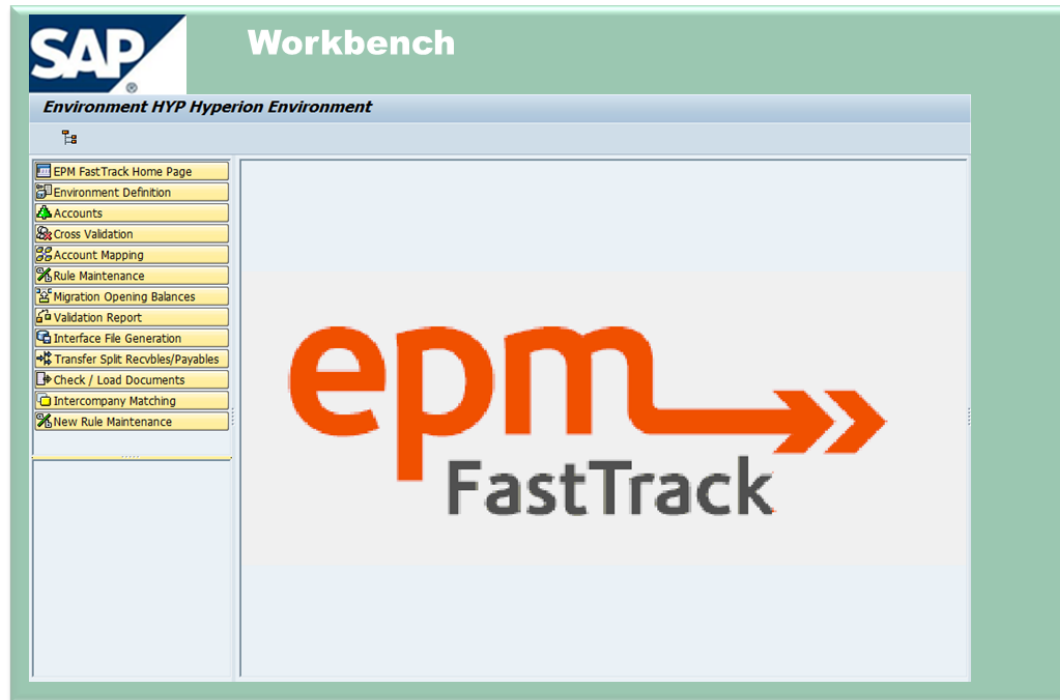
Origin	Field Name	Description	Content before	Content after	Comments
TARGET	RZZ304	Hyperion Major Product Gro		MECH	

Display Derivation of Hyperion Characteristics from Document

Workbench



- ❑ User and Installation Tasks.
- ❑ Tasks limited by authorization – Restricted menu
- ❑ Some tools in separate reports



Metadata and Repository



Use: *Step Up (Once with occasional updates)*

Responsible: *Finance*

Functionality

- Current Version manual maintenance.
- Accounts can be loaded from spreadsheet.

Tasks

- Create Hyperion characteristics and assign to Hyperion Repository
- Generate repository
- Assign SAP Company Codes to Hyperion Repository
- Maintain Values of Characteristics

Metadata and Repository



SAP Metadata and Repository Maintenance

Environment HYP Hyperion Environment

Environment Structure	99
Hyperion Entity	
HFM Entity	■
Hyperion Account	
Account Number	■
Hyperion ICP	
HFM ICP	■
Hyperion Custom 1	
Hyperion Movement Type	■
NDV Code	■
Hyperion Custom 2	
Hyperion Function	■
Hyperion Custom 3	
Major Product Group	■
Hyperion Custom 4	
SBU	■
SAP Only	
Sales Document	■
Sales Document Item	■
Material	■
Profit Center	■
WBS Element	■
Trading Partner	■
Company Code	■
Cost Center	■
Functional Area	■
Transaction Type	■
Order	■

Metadata



SAP **Creating and Assigning Hyperion Characteristic**

Create Hyperion Characteristic and Values

Drag and Drop Hyperion Characteristic to add to Repository

Environment Structure	99
Hyperion Entity	
HFM Entity	■
Hyperion Account	
Account Number	■
Hyperion ICP	
HFM ICP	■
Hyperion Custom 1	
Hyperion Movement Type	■
NDV Code	■
Hyperion Custom 2	
Hyperion Function	■
Hyperion Custom 3	
Major Product Group	■
Hyperion Custom 4	
SBU	■
SAP Only	
Sales Document	■
Sales Document Item	■
Material	■

Hyp.GeoCod	Description
100	Northern region
200	Southern region
300	Western region
400	Eastern region

Cat.	Characteristic
	Geo-Region
	Local GAAP Entity
	Function
	Hyp.Plan.Entity
	SBU
	Account Suffix
	Hyperion Planning Department
	Product Hierarchy Level 1
	Country of Ship to Party
	Alternative Profit Centre
	Product Hierarchy Level 2
	GPP
	ICP 2
	Hyp.GeoCoding

Cross Validation



Use: *Step Up (Once with occasional updates)*

Responsible: *Finance*

Functionality

- Manually set required fields for each account using simple user interface

Tasks

- Enter required fields by account
 - Green Mandatory
 - Yellow Optional
 - Red Suppress

Cross Validation



SAP Cross Validation

Environment HYP Hyperion Environment

Book 99 Hyperion Demo Bo... Long Text HFM Entity HFM ICP HypMvTyp NDV Code HypFunc MjrPrdGrp

Mandatory Optional Suppressed

Balance Sheet Accounts

- Asstot
 - Asst
 - 10000 Buildings
 - 11000 Investments
 - 12000 Investme...
 - 13000 Link Elim...
 - 14000 Receivabl...
 - 15000 Receivabl...
 - 17000 Plug Elimi...
 - Asst
 - 16000 Trading G...
 - 18000 Cash in ha...
 - 19000 Receivabl...
 - 20000 Receivabl...
 - 21000 Plug Elimi...
 - 24000 Depreciation
 - 38000 Input Tax
 - 19600 Asset Acq...
 - 16500 Accounts ...
 - 19500 Other Pay...
 - 47000 Bank
 - 16501 IC Payable
- EquityT
- Other
- TestStructureBS
- Profit & Loss Accounts
- Unassigned

Account	HFM Entity	HFM ICP	HypMvTyp	NDV Code	HypFunc	MjrPrdGrp
10000	Green	Red	Yellow	Yellow	Yellow	Yellow
11000	Green	Red	Yellow	Yellow	Yellow	Yellow
12000	Green	Red	Yellow	Yellow	Yellow	Yellow
13000	Green	Red	Yellow	Yellow	Yellow	Yellow
14000	Green	Red	Yellow	Yellow	Yellow	Yellow
15000	Green	Red	Yellow	Yellow	Yellow	Yellow
17000	Green	Red	Yellow	Yellow	Yellow	Yellow
16000	Green	Red	Yellow	Yellow	Yellow	Yellow
18000	Green	Red	Yellow	Yellow	Yellow	Yellow
19000	Green	Red	Yellow	Yellow	Yellow	Yellow
20000	Green	Red	Yellow	Yellow	Yellow	Yellow
21000	Green	Red	Yellow	Yellow	Yellow	Yellow
24000	Green	Red	Yellow	Yellow	Yellow	Yellow
38000	Green	Red	Yellow	Yellow	Yellow	Yellow
19600	Green	Red	Yellow	Yellow	Yellow	Yellow
16500	Green	Red	Yellow	Yellow	Yellow	Yellow
19500	Green	Red	Yellow	Yellow	Yellow	Yellow
47000	Green	Red	Yellow	Yellow	Yellow	Yellow
16501	Green	Red	Yellow	Yellow	Yellow	Yellow



Enter G/L account document: Display Overview

Display Currency Park document Acct model Fast Data Entry Taxes

Document Date 05.09.2012 Type SA Company Code 1000
Posting Date 05.09.2012 Period 9 Currency EUR
Document Number INTERNAL Fiscal Year 2012 Translatn Date 05.09.2012
Reference Cross-CC no.
Doc.Header Text Trading part.BA

Items in document currency

PK	BusA	Acct		EUR	Amount	Tax amnt
001	40	9900	0000473000	Postage	1,000.00	01
002	50		0000100000	Petty cash	1,000.00-	

Document lines: Display messages

Type Item Message Text

- 001 Account 67700 requires a Hyperion Function (local account 473000)

Other line item

PstKy Account SGL Ind TType New co.code

Ensure Completeness of Hyperion Data at time of posting

Account Mapping



Use: *Step Up (Once with occasional updates)*

Responsible: *Finance*

Functionality


- Drag Drop Account Mapping Tools
- Multiple Local Charts of Accounts can be handled
- Future release
 - Show accounts in hierarchies
 - Download / Upload from Excel

Tasks

- Drag local account and drop onto HFM/Hyperion account

Account Mapping

←→



Mapping SAP to Hyperion Account

Environment HYP Hyperion Environment

Chart of Accounts INT

Local Chart of Accounts | Short Text | Long Text | Targ...

Local Chart of Accounts	Short Text	Long Text	Targ...
00470950	Op.cst n-d in...	IS-RE Settlement-op.costs...	
00470999	Clg op.cst n-d i...	IS-RE Clearing - op.costs n...	
00471000	Machinery rental	Machinery rental	
00471100	Interim Account	Interim Account	
00472000	Distribution costs	Dispatch/Shipping costs	
0000472001	Realised Gains...	Realised Gains\Loss	
0000472002	Valuation Gains...	Valuation Gains/Loss	
0000472003	Rounding Differ...	Rounding Differences	
00473000	Postage	Postage	67700
00473110	Telephone (ba...	Telephone (basic fees)	
0000473120	Telephone usage	Telephone usage	
00474100	Travel expense...	Travel expenses - lump su...	
00474210	Travel exp./acc...	Travel expenses/accommo...	
0000474211	Test Expenses	Test Expenses	
00474220	Travel exp./meals	Travel expenses/meals - (...)	
00474230	Travel costs, tr...	Travel expenses drive/fly (...)	
00474240	Travel costs, o...	Travel costs, other	
00474250	Tr.cost.enterta...	Trip costs, entertainment	
00474260	TCosts: Paid docs	Travel costs: Paid docume...	
00474280	Tr.exp.lump su...	Travel expenses - lump su...	
00474290	Travel Expense...	Travel Expenses - loan	
00474295	Trip costs, cas...	Trip costs, cash advance	
00474310	Per Diem Do.T...	Per Diem Domestic Tax Free	
00474320	Per Diem Do.T...	Per Diem Domestic Taxable	
00474330	Per Diem Ab.T...	Per Diem Abroad Tax Free	

Chart of Accounts Mapping Table

Mapping method | Mapping Table

Target Chart of Accounts | Short Text | Long Text

Target Chart of Accounts	Short Text	Long Text
60000	SalesTP	Sales third parties
61000	SalesIC	Sales intercompany
62000	CogsTP	Cost of Goods Sold third part
63000	CogsIC	Cost of Goods Sold intercom
64000	RDExpense	RDExpense
65000	Admex	Administrative Expenses
66000	ConsumLoss	Losses Consumption
67000	OtherExp	Other Expenses
67250	TestAcct01	TestAcct01
67500	Expenses01	Expenses 01
67600	Expenses02	Expenses 02
67700	Expenses03	Expenses 03
00473000	Postage	Postage
67800	Expenses04	Expenses 04
68250	TestAcct02	TestAcct02
69250	TestAcct03	TestAcct03
70000	Account01	Account 01
71000	Account02	Account 02
72000	Account03	Account 03
73000	Account04	Account 04
74000	Account05	Account 05
75000	Account06	Account 06
81000	Consumption G...	Consumption Gain

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Drag Drop Mapping



Enhancing SAP Hyperion Integration

Derivation Rules



Use: *Step Up (Once with occasional updates)*

Responsible: *Finance*

Functionality

- User defined derivation tables mapping SAP to HFM Characteristics
- SAP Characteristics available can be enhanced through standard Business Add In (BAdI) to match specific requirement

Tasks

- Determine how HFM Characteristics are determined from SAP Characteristics, e.g. HFM Entity determined from Company Code
- Create Derivation Tables to reflect mapping structure – Base mapping -> Exceptions
- Populate Derivation Tables with mapping values

Derivation Rules



SAP Derivation Rules

Environment HYP Hyperion Environment

Derivation Rule HYP

- 0001 Hyperion Entity Derivation
- 0002 Hyperion Function
- 0003 Hyperion Movement Type
- 0004 Hyperion Major Product Group
- 0005 Hyperion ICP Derivation
 - Source Fields
 - Trading Partner
 - Target Fields
 - HFM ICP
- 0006 PFE - ZRGLOVER - Prerequisite
- 0007 PFE - CoCd in Set ZR4CCOVER
- 0008 PFE - Get DIV from table "ZCCGLFDM"
- 0009 Default Function
- 0010 SBU
- 0011 Manual Sales
- 0012 Move

Allowed Source Fields

- Debit/Credit Ind.
- Controlling Area
- Logical system
- Profit Center
- Account Number
- Trading Partner
- Company Code
- Cost Center
- Functional Area

Allowed Target Fields

- Temporary fields for Derivation
 - Hyperion Demo Actual line item table
 - Account Number
 - SBU
 - HFM Entity
 - HFM ICP
 - Hyperion Movement Type
 - Hyperion Function
 - Major Product Group
 - NDV Code

Automatic Derivation Table Generation

Derivation Rules: Change Rule Values

On / Off On / Off Optimize Column W

Derivation rule Hyperion ICP Derivation

No value filter active

Company I...	Company ID of trading pa...	A...	Hyperion IC...	Hyperion ICP Code Name
1000	C Company	=	A1	Company A1
3000	IDES US INC	=	B2	Company B2

Migration Opening Balances



Use: *Step Up*

Responsible: *Finance*

Functionality

- Build HFM Opening Balances in SAP
- Tool that allows data to be extracted from various sources to build opening balances depending upon detail required
- Passes extracted data through the same derivation and validation rules
- Run by company code

Tasks

- Determine for each G/L account the source of data, G/L Balance, Open Items

Interface



Use: *Monthly*

Responsible: *Finance*

Functionality

- Generation of Interface file
- Fully Configurable to handle most file types
- Multiple reconciled files generated e.g. Trial Balance, Sales, Fixed Asset
- Rounding , Swap accounts based on whether Debit or Credit balance, Sign Convention

Tasks

- Configure Interface Files

Interface



SAP Interface File

Environment HYP Hyperion Environment

HYP-IS Income Statement

Preview Export

HYP-TB Trial Balance

Year	Peri...	CoCode	Account	HFM Enti...	HFM I...	HypMvTyp	HypFun...	NDV Code	Crcy2	Σ Cum.loc.currency	Σ Orig.Cum.LC.Amt
		1000	38000						EUR	5	5
			38000						EUR	5	5
2012	12	1000	43000	B1					EUR	1	1
		1000							EUR	1	1
			43000						EUR	1	1
2012	12	1000	43100	B1					EUR	101-	101-
		1000							EUR	101-	101-
			43100						EUR	101-	101-
2012	12	1000	46000	B1					EUR	5	5
		1000							EUR	5	5
			46000						EUR	5	5
2012	12	1000	62000	B1					EUR	9	9
		1000							EUR	9	9
			62000						EUR	9	9
2012	12	1000	63000	B1					EUR	81	81-
		1000							EUR	81	81-
			63000						EUR	81	81-
2012	12	1000	67000	B1					EUR	816,977	816,977-
		1000							EUR	816,977	816,977-
			67000						EUR	816,977	816,977-
2012	12	1000	67250	B1					EUR	0	0
		1000							EUR	0	0
									EUR	0	0

Validation Report



Use: *Weekly*

Responsible: *Finance*

Functionality

- Identifies transaction data not matching HFM validation rules
- Allows specific validations to be built manual to check data, e.g. combinations of characteristic values.
- Validation rules based on standard SAP technology but require customizing
- User can summarize data at level required
- Not called on-line

Tasks

- Create validation rules and steps required
- Create Summarizations
- Run Validations

Reconciliation



Use: *Weekly*

Responsible: *Finance*

Functionality

- ❑ Provides reconciliation between HFM data in SAP and General Ledger by Account

Realignment



Use: *As needed*

Responsible: *Finance*

Functionality

- Allows data to be updated for mapping changes
- Handles mass changes rapidly using parallel processing
- Restrict characteristics to be updated

Realignment



SAP Realignment

ZFCW_REALIGNMENT

Realignment
Realignment Identifier: 1000_2012_all
Derivation Type: DOCUMENT
Selection Method: 1

Ledger and Ledger Selections
Ledger: 411

Main Selection | Target Fields | Program Settings

Fixed Selections

Organization / Period
Company Code: 1000 to
Fiscal Year: 2012 to
Posting period: to
Posting Date: to

Accounts
Account Number: to
Local GL Account: to

Documents
Ref. document number: to
FI Document Number: to

Statistics: Realignment 1000_2012_all_2

Derivation Method	Start Date	Start Time	Finish Date	Finish Time	User	Items Processed	Items w. Error	Items Changed
DOCUMENT Re-Process Original Document	05.09.2014	13:17:59	05.09.2014	13:18:22	STUDENT008	294	2	2

The following fields were updated

Ld	Field	Long
HZ	RZ2300	HFM Entry

Main Selection | Target Fields | Program

- Account Number
- HFM Entry**
- HFM ICP
- Hyperion Movement Type
- Hyperion Function
- Major Product Group
- NDV Code
- SBU
- Trading Partner
- Profit Center
- Transaction Type
- Cost Center
- Functional Area
- Material
- Order
- WRS Flament

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SELECTION **UPDATE**

Stanley Black & Decker



Stanley Black & Decker (SBD) is a global provider of power and hand tools, mechanical access solutions, and electronic security and monitoring systems. Turning over more than \$10b and employing more than 44,000 people, SBD have deployed the SAP ERP and Oracle Hyperion systems globally across the business.

www.stanleyblackanddecker.com

Issues



- ❑ Speed taken for submitting information to HFM is slow
- ❑ Reconciliation between SAP / HFM / Hyperion Planning and BW is poor
- ❑ Accuracy of data, HFM characteristics not being correctly derived

Requirements



- ❑ Speed up HFM submissions
- ❑ Eliminate Reconciliation issues between SAP / HFM / Hyperion Planning
- ❑ Improve Accuracy of data, HFM characteristics not being correctly derived
- ❑ Data Realignment – ability to realign data based on key characteristics
- ❑ Decentralise the submission process out to the countries
- ❑ Enhanced Visibility of how HFM numbers have been derived
- ❑ Reports that will significantly improve quality & efficiency of work within finance
- ❑ Fast implementation was required, 2-3 months not 15-18 months (off the shelf product as opposed to full scale development project)

FastTrack benefits for SBD



- ❑ HFM and Hyperion Planning characteristics are derived and validated for every SAP transaction in 'Real Time'.
- ❑ No reconciliation effort at period end
- ❑ No data preparation required
- ❑ File extract for FDM takes 5 minutes for all EMEA entities (previously 3-4 hours)
- ❑ SAP Control reports improve efficiency

FastTrack benefits for SBD



- ❑ FDM file load process can be decentralised to the different countries
- ❑ Consistent process across all countries for Hyperion submissions
- ❑ Hyperion users who don't know SAP can see familiar Hyperion characteristics in SAP
- ❑ Easy to build reports that combine SAP, HFM and Hyperion Planning characteristics
- ❑ Links into standard SAP transactions – GD13

FastTrack benefits for SBD



- ❑ Rich SAP data set allowed for complex mappings rules to be handled
- ❑ No lengthy development cycles
 - ❑ Initial mapping rules took 12 days to put together
 - ❑ Go Live in 7 weeks
 - ❑ Real Time for GB and IE Markets 4 weeks
 - ❑ Development would be in excess of 15 months
- ❑ Minimal SAP technical involvement

FastTrack benefits for SBD



- ❑ Easy to bring new companies on line
- ❑ Easy to identify and rectify mapping issues

Road Map



- ❑ SAP HANA development
- ❑ Integration into Hyperion
 - ❑ Metadata

Thank you!



Enhancing SAP Hyperion Integration