



Managing Customizations and Change in an EPM 9.0 Warehouse Environment

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Reggie Gentle, Jr.
Florida State University



Introduction

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- Presenters:

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- **Reggie Gentle, Jr.**

- BI Architect, ERP Reporting

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Goals

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- Familiarize you with FSU's Implementation and some of our project challenges.
- Engage is a discussion of how customization contribute to the success/failure of EPM/OBIEE deployments.
- Provide real world examples of EPM/OBIEE customizations relevant to Higher Education.
- Make sure that your information needs are met.





Overview

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- Introduction
- Background of FSU's ERP Implementation
- Overview of FSU's OBIEE Implementation
- Profile of our Customizations
- Our Approach to Development & Customizations
- Our Approach to Change & Issue Management
- Case Studies of Major FSU Customizations
 - Case 1 – Consolidated KK & GL Reporting
 - Case 2 – Inheriting Report Security
 - Case 3 – Reporting in external organization's terms
- Lessons Learned
- Questions & Comments





Florida State University

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**...is a premier, comprehensive,
graduate research university,
with both law and medical
schools.**



- **Annual Operating Budget: \$1.1B**
- **Over 39,000 students**
- **Over 14,000 employees**
- **Over 13,000 biweekly paychecks**
- **Over \$18 million in biweekly payroll**



FSU's ERP Implementation

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- Implemented Financials 8.4, Portal 8.8, and EPM 8.8 in June 2004
- Implemented HR/Payroll 8.8 in December 2004
- Upgraded HR and EPM Suites to 8.9 in April 2006
- Upgraded FI Suite to 8.9 in November 2006
- Upgraded EPM and Portal Suites to 9.0 in November 2007
- Upgraded HR Suite to 9.0 in October 2008
- Currently Upgrading FI Suite to 9.0 (est. April 2009)
- Currently Migrating from DB2 to Oracle DB for FI (est. April 2009)
- Implemented OBIEE in March 2008
- Go Live for 10.1.3.4 (est. April 2009) to Linux



FSU's Business Challenges

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- Unable to track budget, expended, encumbered, and remaining balances across various levels of the University
- No efficient tools for users to interact with data, view data at different levels, and drill into data without IT help
- Unable to quickly and completely provide HR based data for demographic and regulatory reporting
- Inefficient production of reports for user community
- Requirement for customized data delivery options to provide proactive notification of budgetary or expended overages



FSU's OBIEE Implementation

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- **Implementation was broken into phases to achieve early, measurable success**
- **Phase I**
 - EPM 9.0 (on Oracle Database)
 - OBIEE and BI Publisher Deployment
 - Oracle Fusion Intelligence
 - **Extensions to data models, maps and metadata**
 - Development of 12 key dashboards
 - Training of developers and end users
- **Usage Metrics since Go Live**
 - 674 Distinct Users
 - 1.2 M Reporting Object Requests submitted



FSU's OBIEE Implementation

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FSCM Reports

- Fin & Budget Position
- Available Balance
- Department Ledger E&G
- Department Ledger C&G/CS
- Department Ledger AUX
- Department Ledger CF

HCM Reports

- Cost Center
- Employee Time Verification
- HR Active Employees
- HR-GL/Payroll Charges
- Position Detail by Dept
- Timesheets by Dept & Empl

Operations Reports

- OBIEE Usage Tracking
- DataStage Operations
- Data Reconciliation

Data Marts

- | | |
|--------------------------|----------------------|
| •General Ledger | •Payroll Cost Center |
| •Workforce Profile (Job) | •Sponsored Research |
| •Commitment Control | •Employee Time |
| •Financial Transactions | •Usage Tracking |
| •HR-GL Transactions | •Data Operations |



Key Elements for Success

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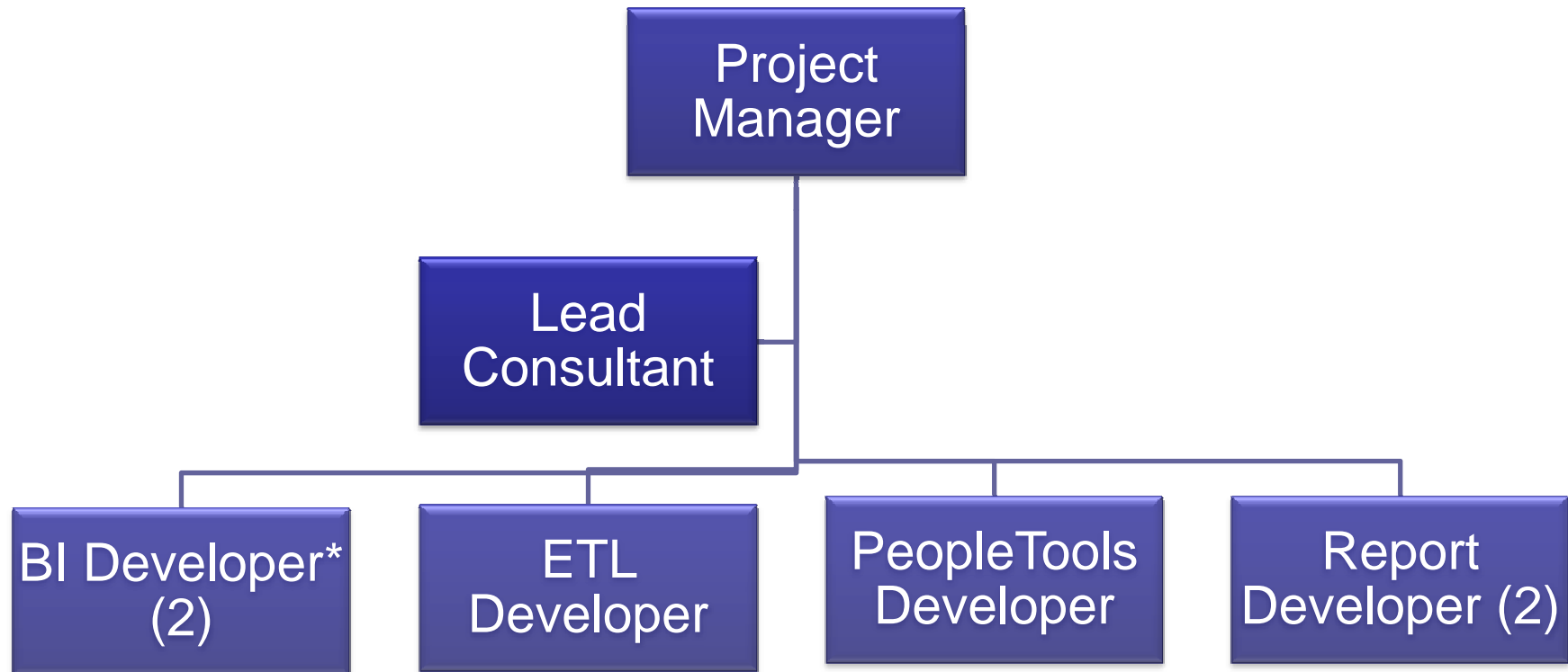
- Clear Vision that was aligned with the University's needs.
- Strong Executive Level Support and Commitment
- Long term relationship with Oracle
- Quality, expertise and dedication of the Project Team.





Project Team

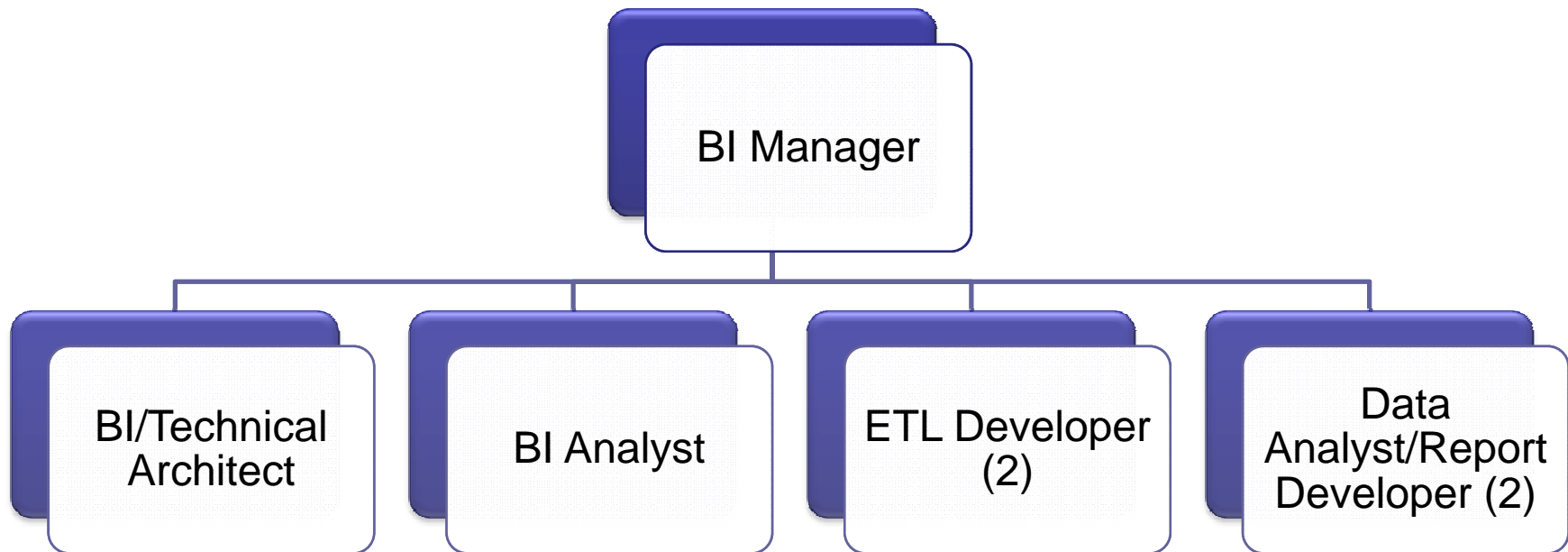
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Current Reporting Team

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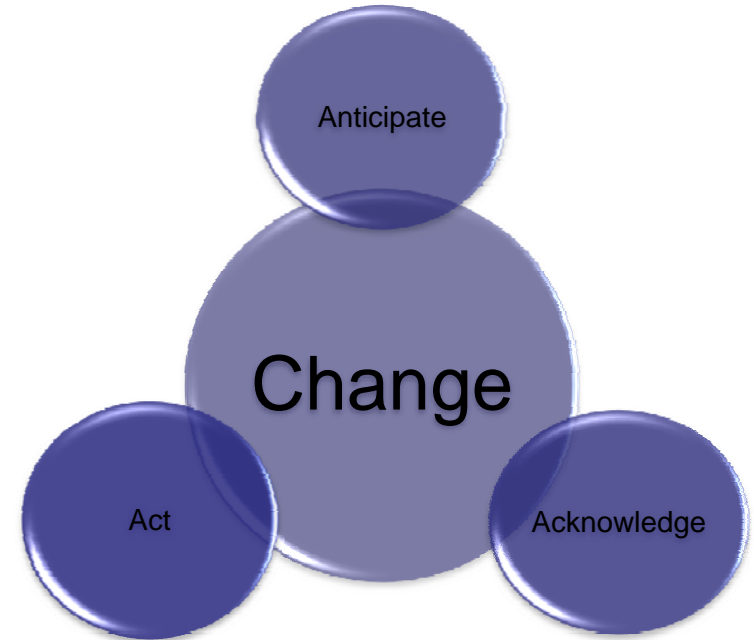


Framework for Managing Change

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Project Change can affect

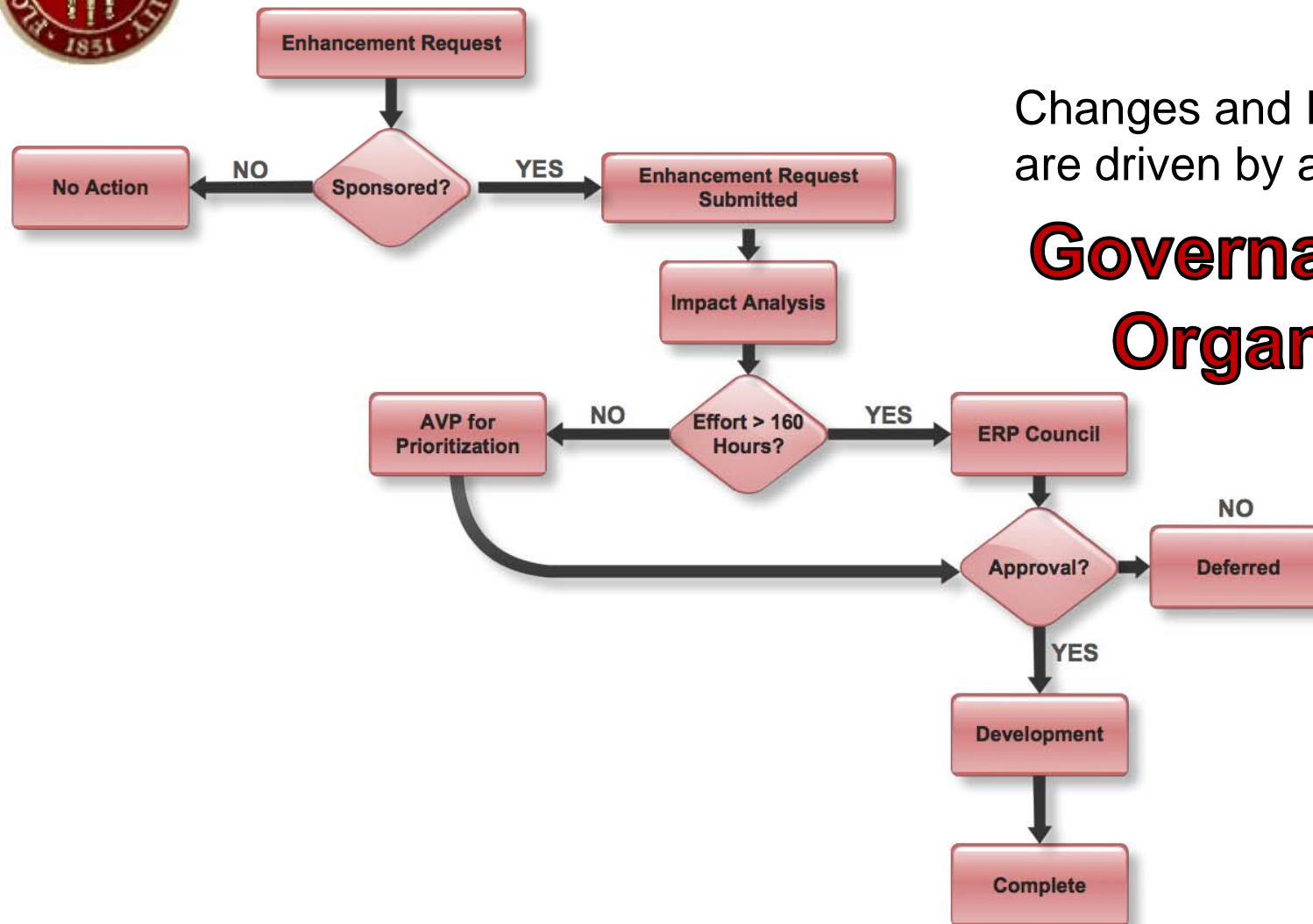
- **Quality** of the solution
- **Budget** to deploy the solution
- **Resources** needed to create the solution
- **Time** needed to complete the solution
- **Scope** the was initially agreed upon





Change Management Process

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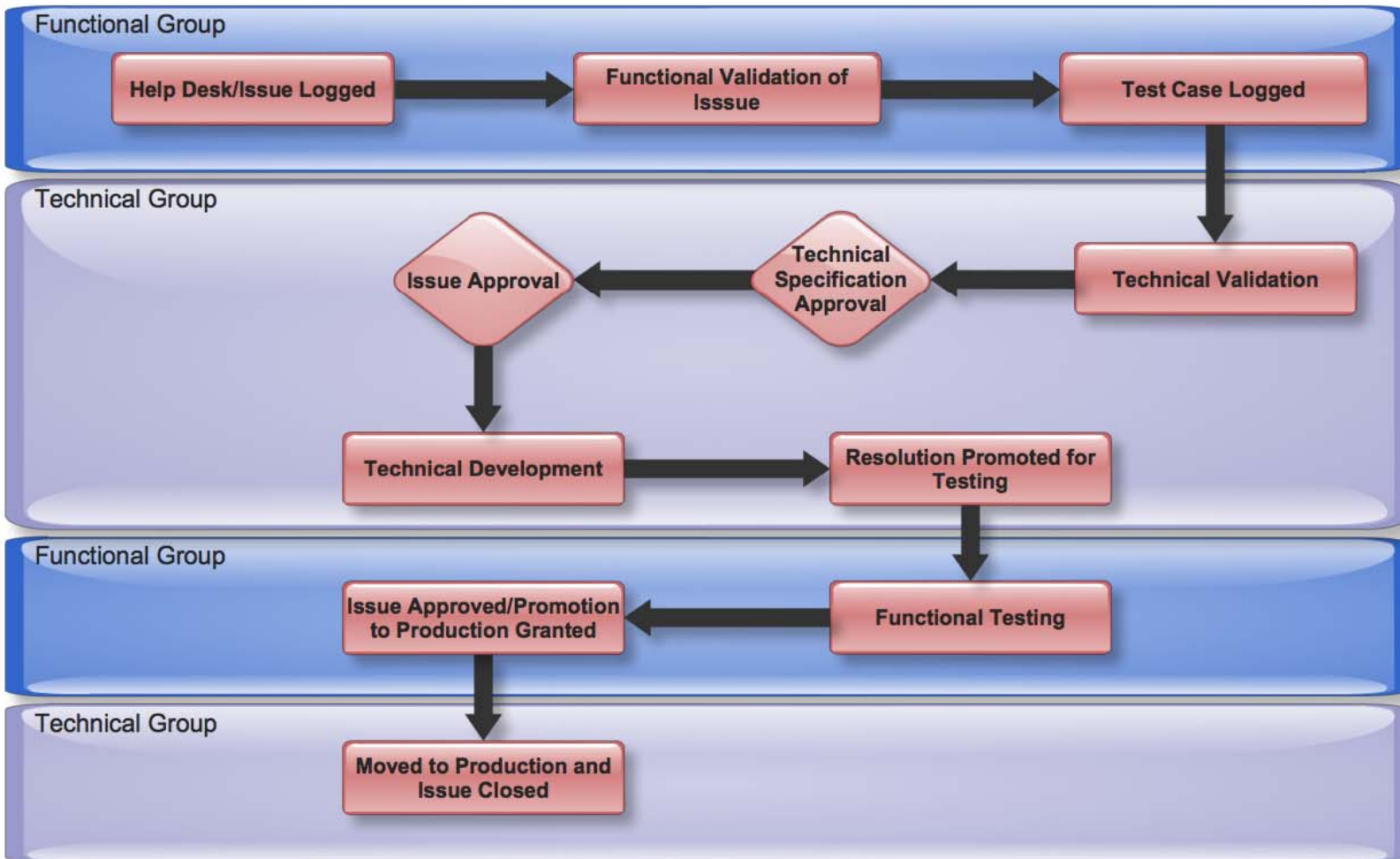
Changes and Enhancements are driven by an effective

**Governance
Organization**



Issue Management Process

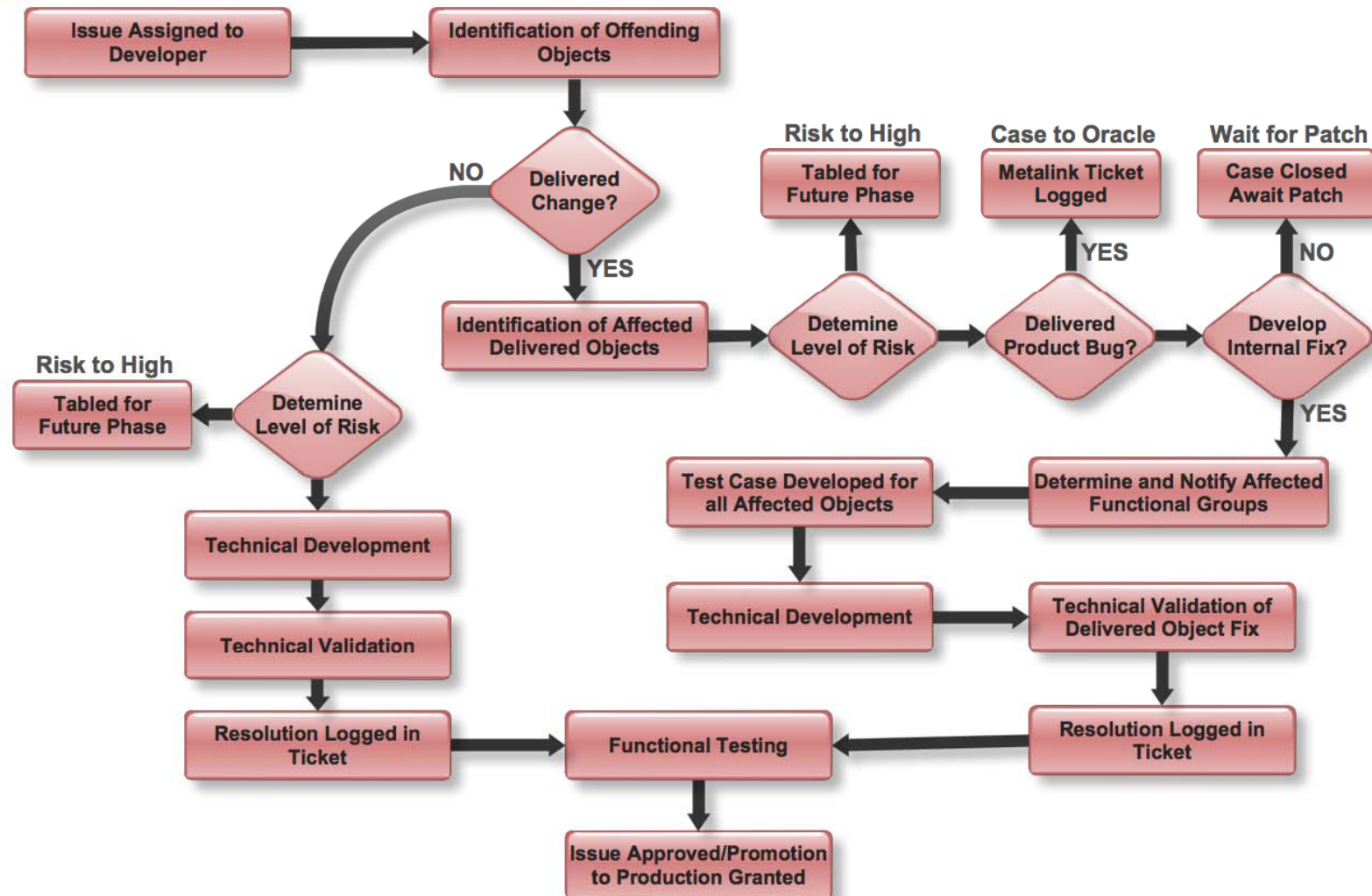
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Issue Resolution Process

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Customization Defined

- Customization – Changing delivered software objects or functionality to meet the needs or fit the practices of an organization.

OBIEE	ETL	EPM
Adding/Modifying Fields in any layer	Adding/Modifying Sequence Jobs	Adding/Modifying any Peopletools object
Adding/Modifying Tables in any layer (including joins)	Adding/Modifying Server Jobs	Adding/Modifying Materialized Views
Initialization Block/Global Variable Definitions	Adding/Modifying Routines/Containers	Adding/Modifying any external object



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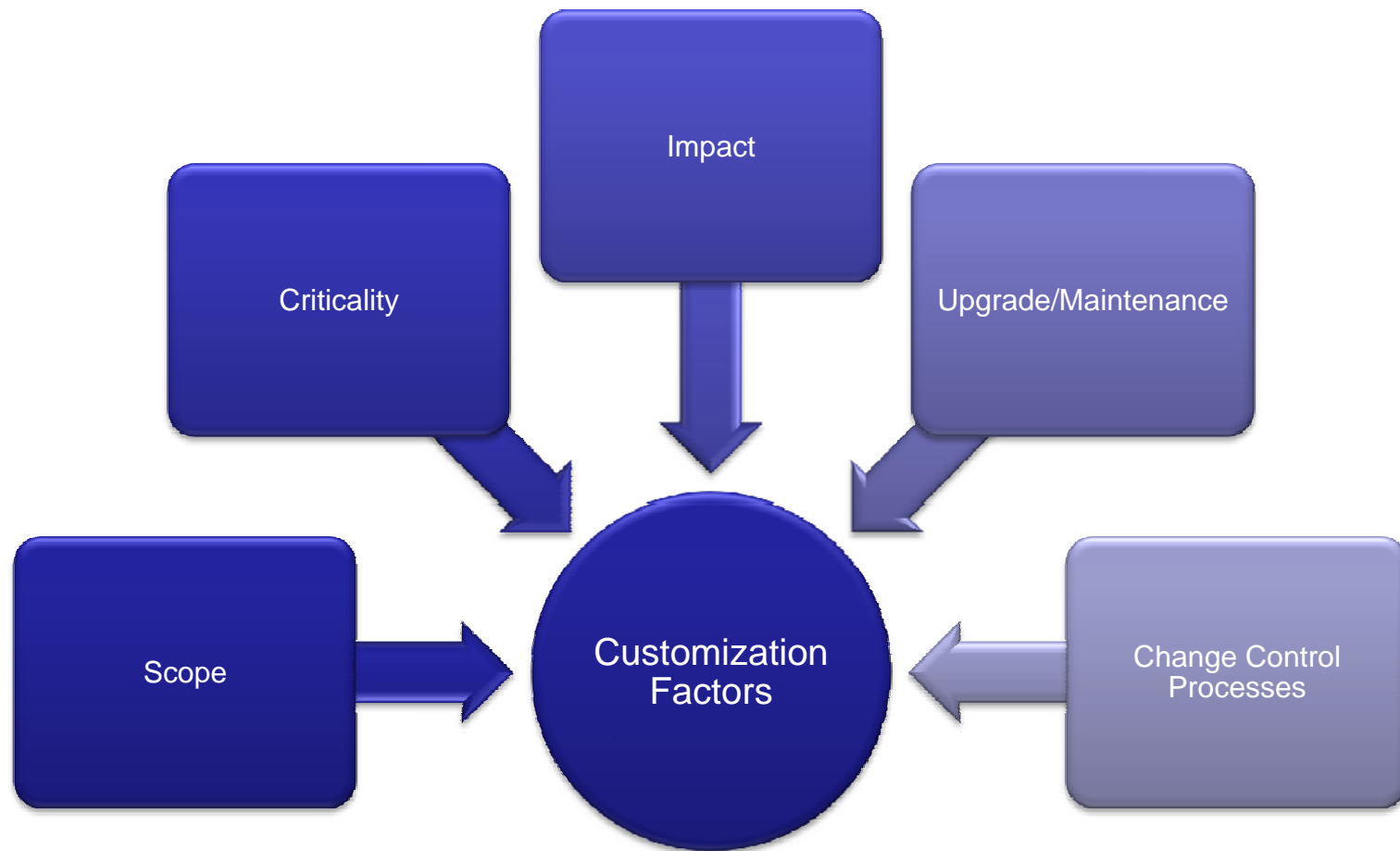
- Is it possible to implement EPM Vanilla and be successful?
- What factors should be considered before customizing?





Factors to Consider

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Key Drivers to Customize

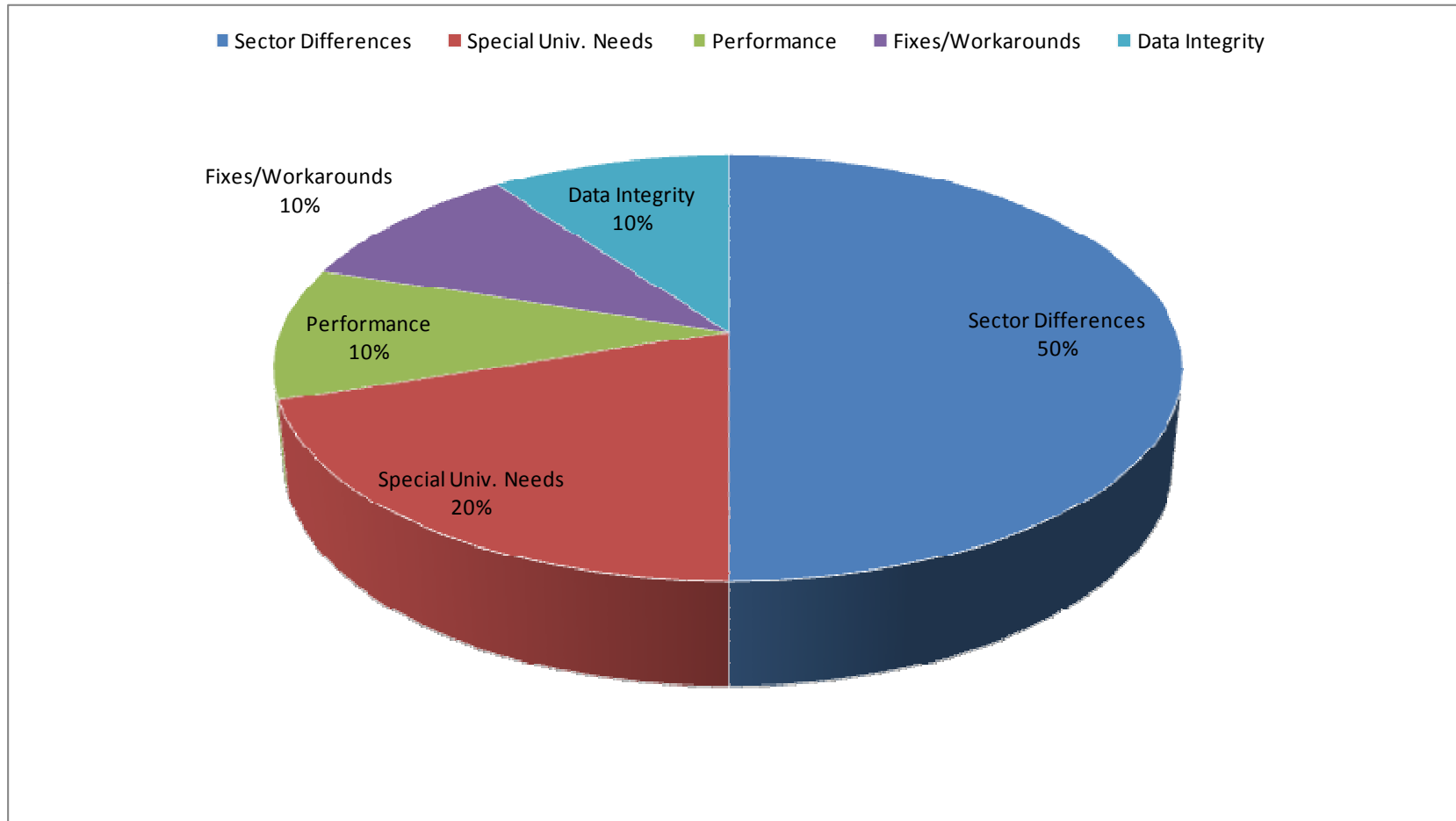
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- Public Sector vs. Private Sector differences
 - Commitment Control
 - Commitment Accounting
 - Grants Analysis
- Specialized Reporting Needs of the University
 - View detailed Financial data across account types
 - Historical Reporting
- Increased Efficiency
 - ETL Performance
 - Use DB specific functionality
- Bug Fixes/Workarounds
- Improved Data Integrity



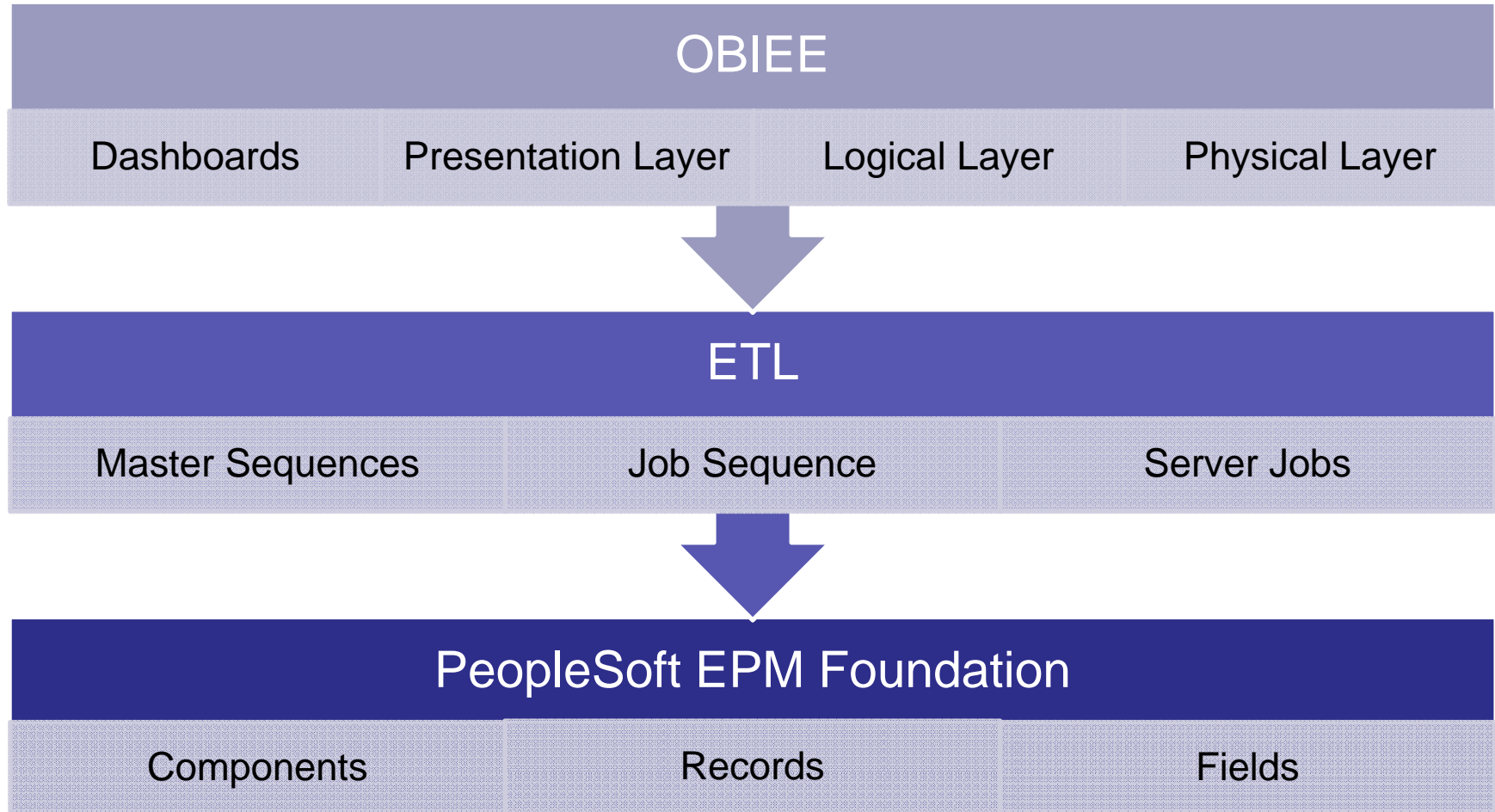
Key Drivers to Customize

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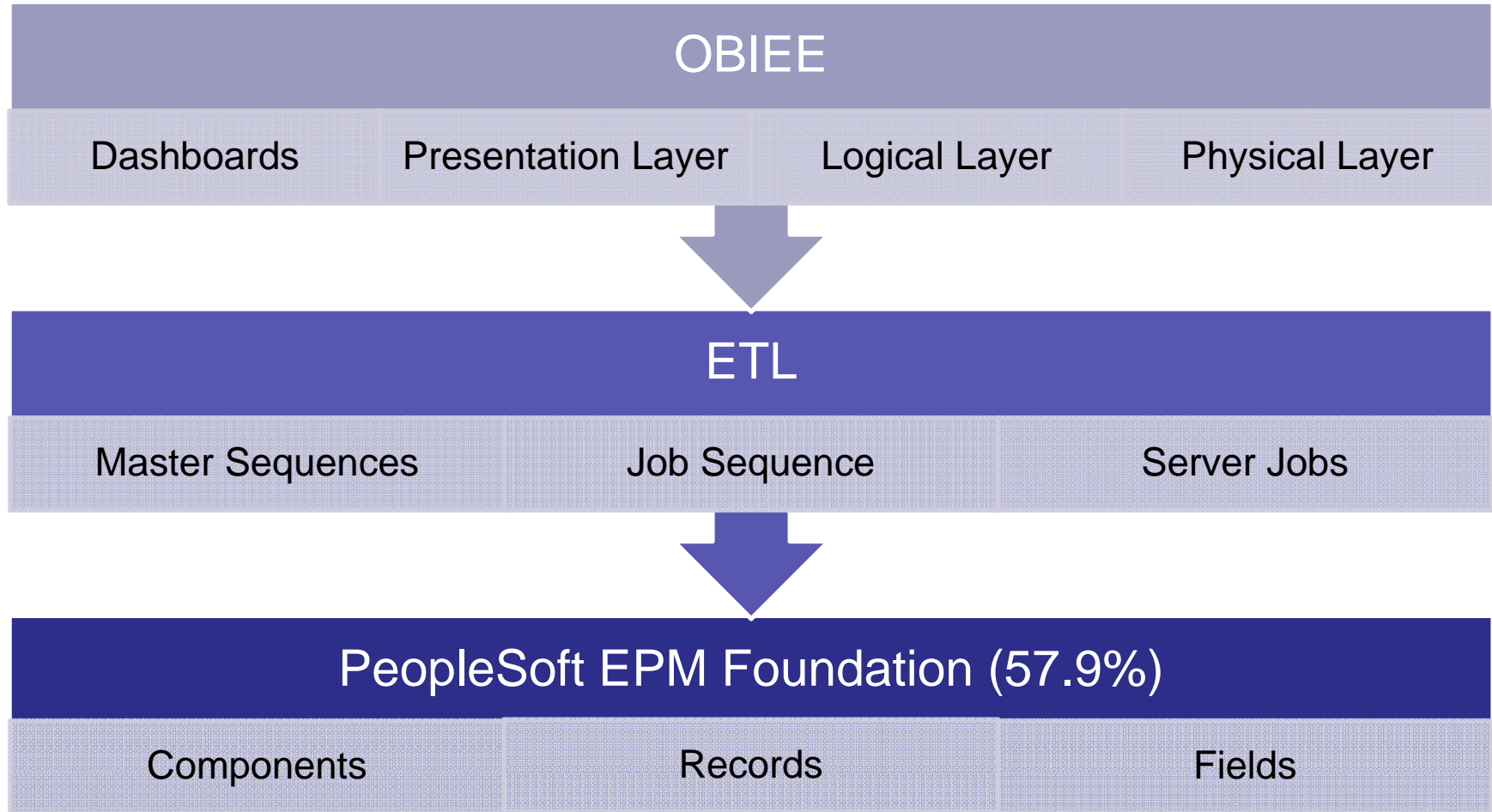


Common Areas for Customization ALLIANCE '09





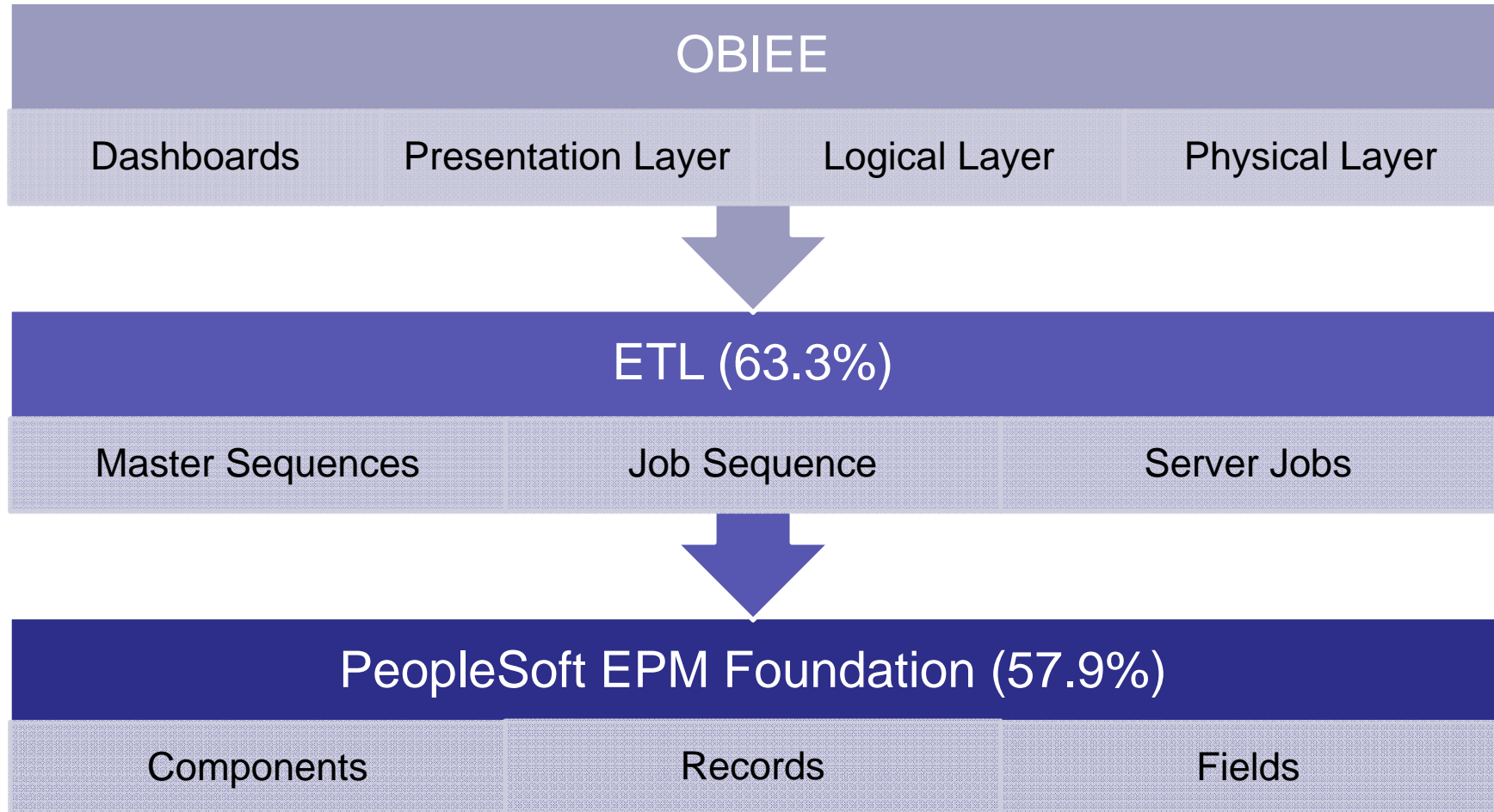
Common Areas for Customization ALLIANCE '09





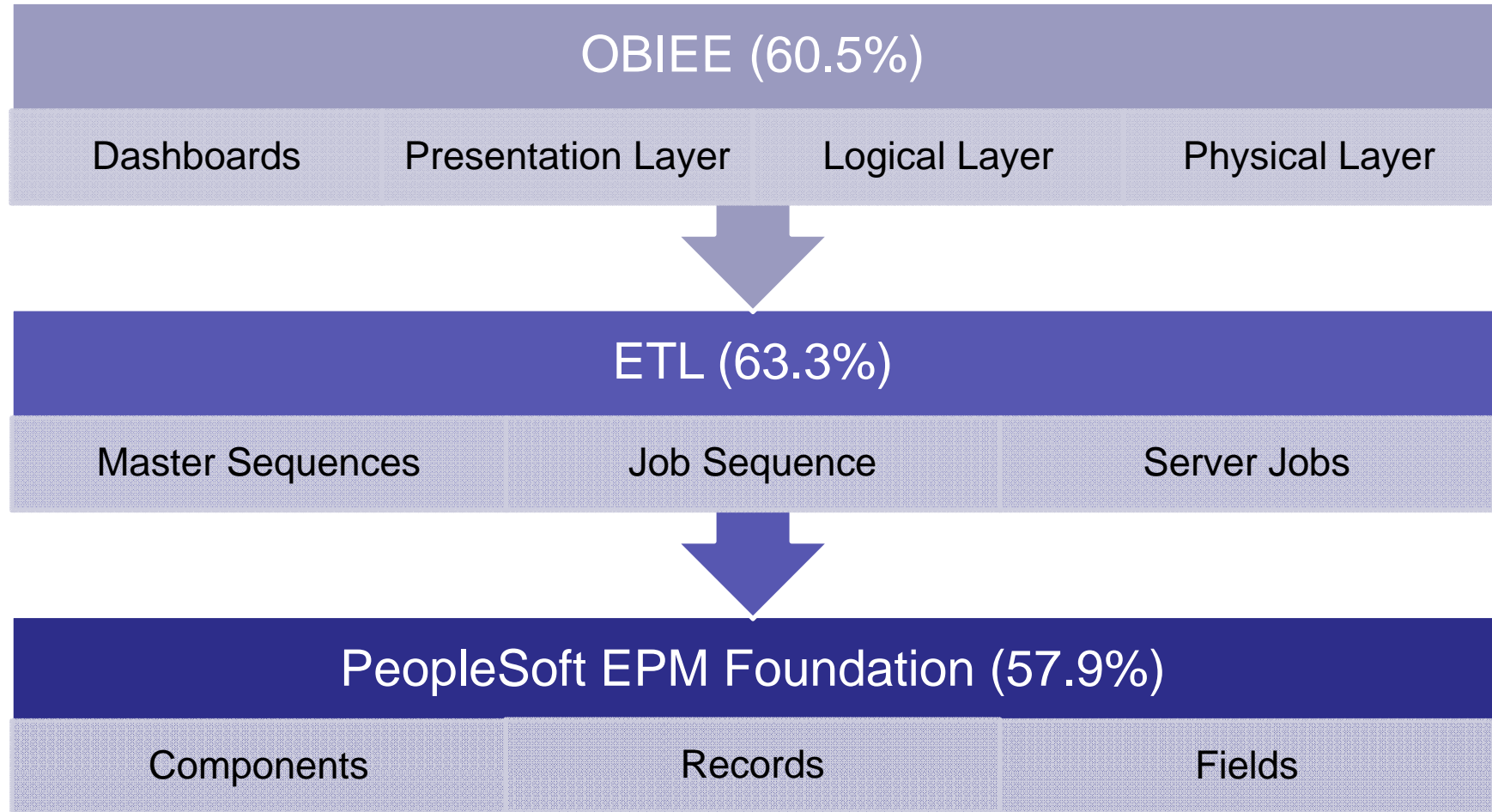
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ALLIANCE '09





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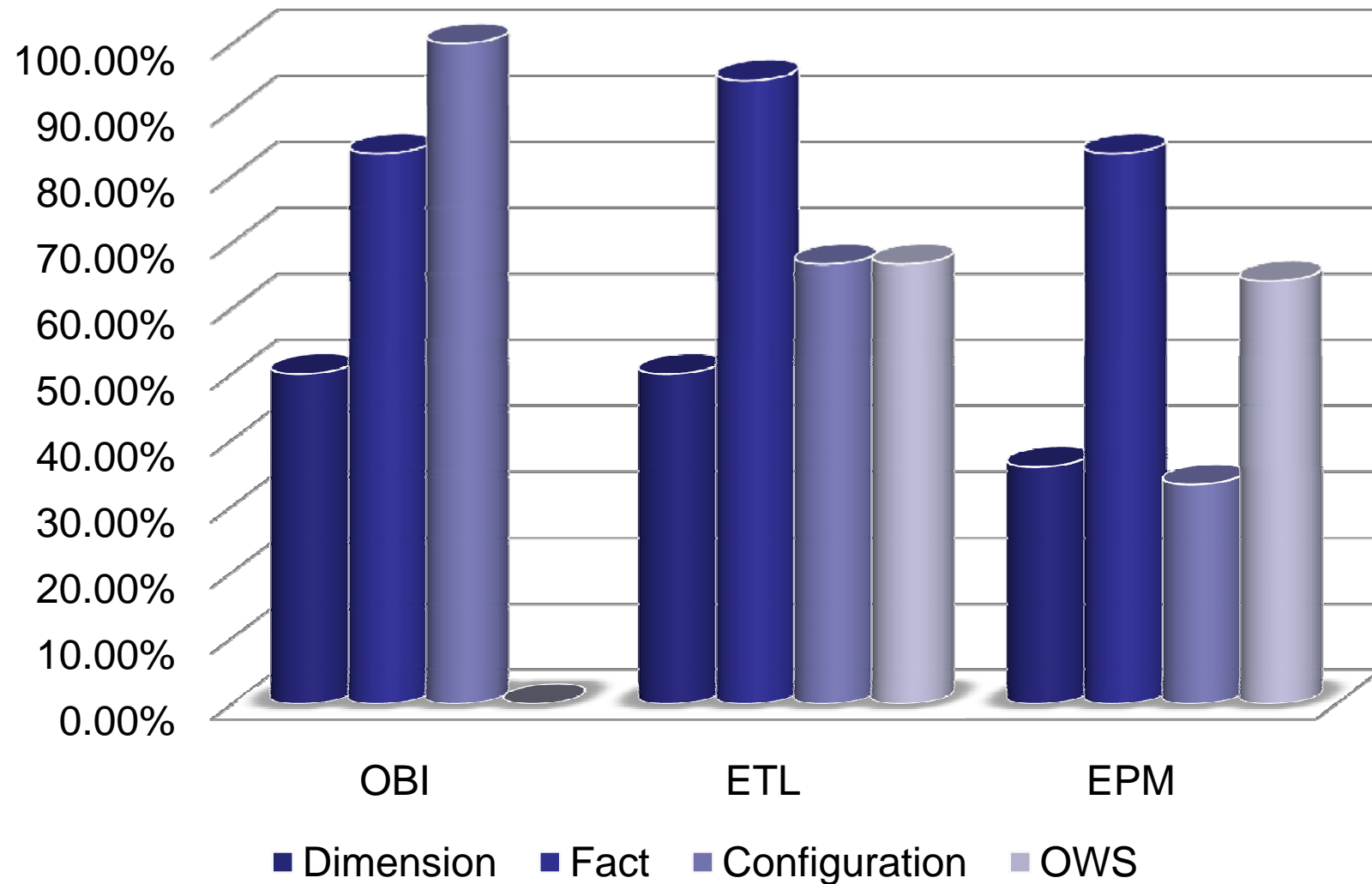




Common Areas for Customization

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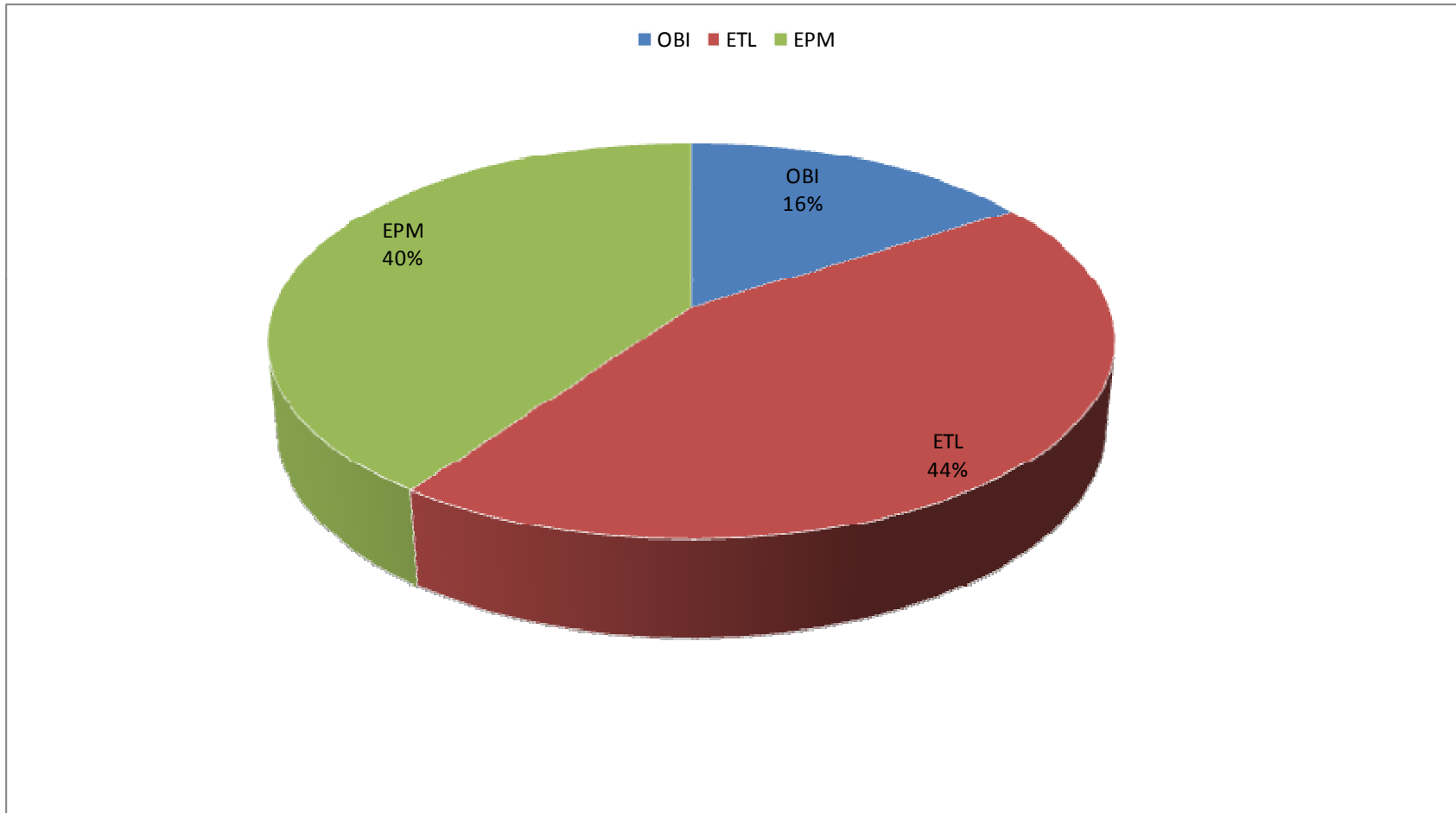
% Customized by type





Overall Distribution

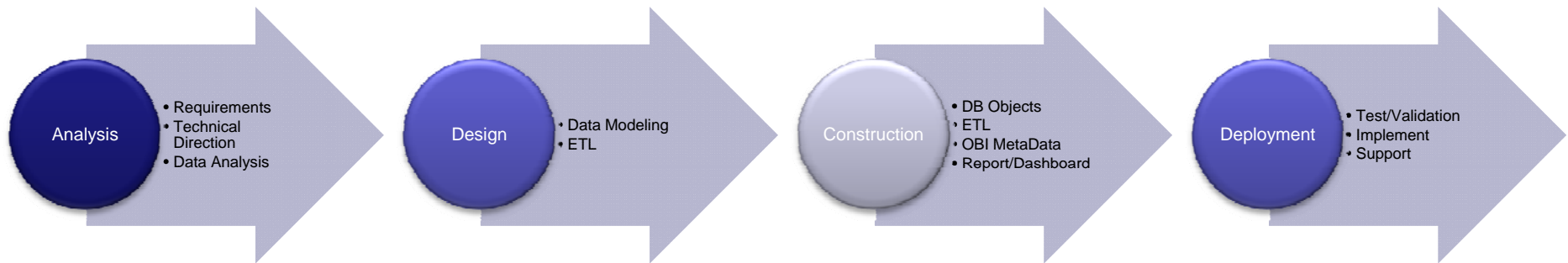
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Development Steps

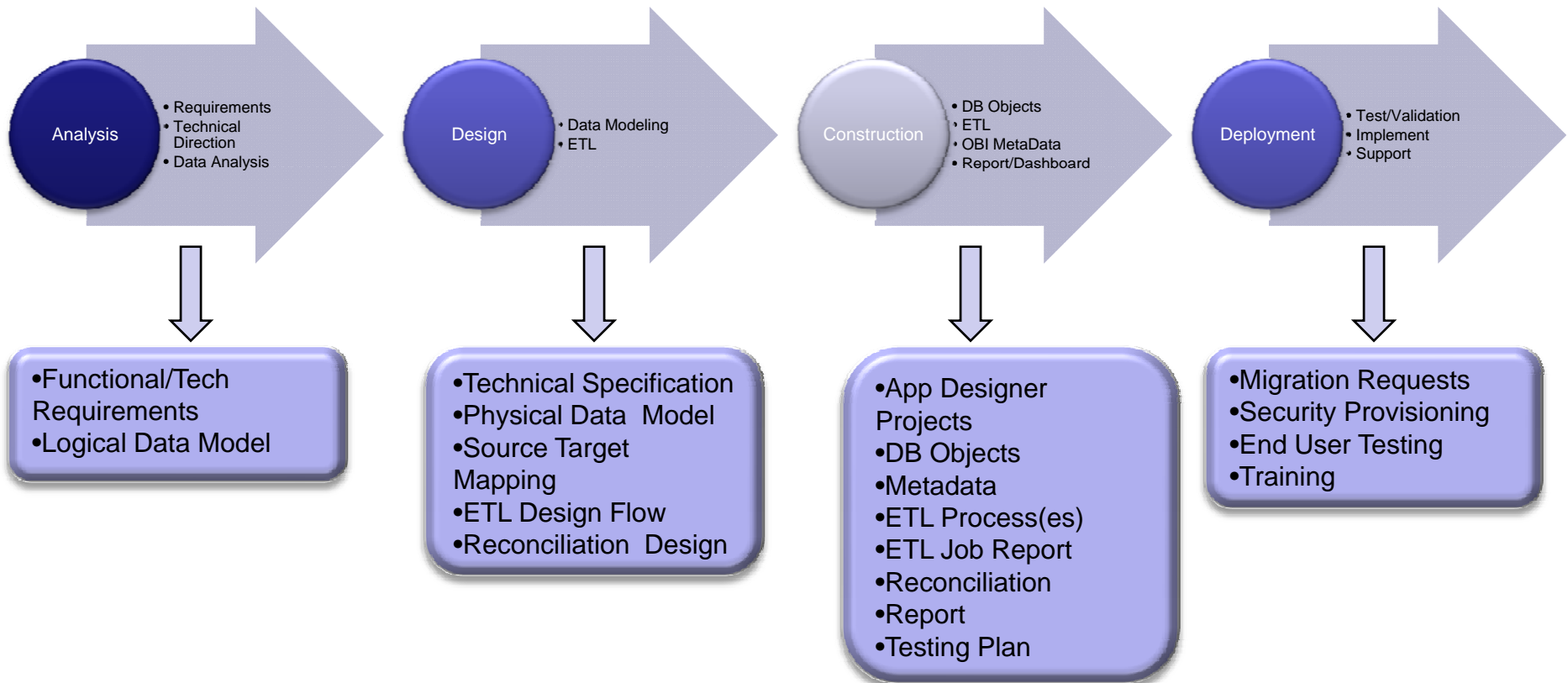
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Development Steps

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Customizing EPM

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- Leverage from deep knowledge of People Tools Development
- Add, Delete, or Modify any of the following objects
 - Menus, Components, Pages, App Messages
 - Records, Fields
- Primary Approach
 - New objects: Prefix FSU_ (ex. FSU_F_ENC_DTL)
 - Delivered Objects: Modify object and fully document
- Upgrade Impact
 - For modified delivered objects special care must be given during maintenance processes.



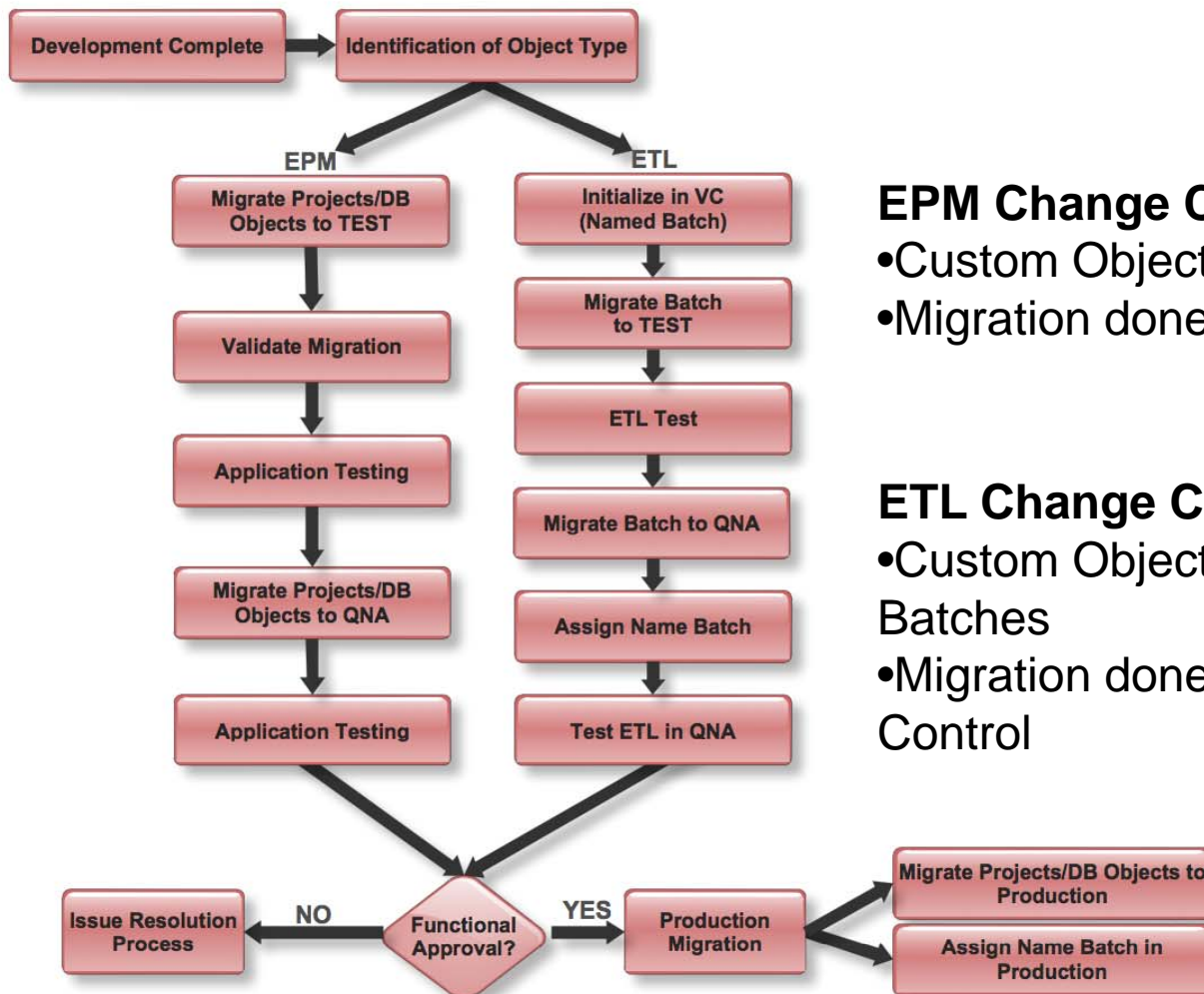
Customizing ETL

- Add, Delete, or Modify any of the following objects
 - Server Job, Sequence Job, Master Sequences
- Primary Approach
 - New objects: Prefix FSU_ (ex. FSU_XXXXXX)
 - Delivered Objects: Clone with new “FSU_” name into FSU_Custom category and fully document
- Upgrade Impact
 - No risk of losing customizations
 - Evaluation of existing customizations during maintenance processes



EPM/ETL Change Control Process

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EPM Change Control

- Custom Objects organized in Projects
- Migration done through PeopleTools

ETL Change Control

- Custom Objects organized into Named Batches
- Migration done through DS Version Control



Customizing OBIEE

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- Add, Delete, or Modify any of the following repository objects
 - Physical/Logical Tables, Physical/Logical Joins, Init Block/Variables
- Custom Reports are created and stored in functional business area folders.
- Primary Approach
 - New repository objects: Prefix FSU_ (ex. FSU_XXXXXX)
 - New Reports: Prefixed with <Dashboard Name>_<Dashboard Function> and saved in custom folders
 - Delivered Web Catalog Objects: Not modified.
- Upgrade Impact
 - No risk of losing customizations



Change Control for Reports

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- Use 4 standard environments to migrations
- Use catalog manager to move objects between environments
- Document/Performance driven process (Issues, Specifications & Change requests)
- Moves are coordinated and scheduled
- Backup/restore enabled
 - SubVersion
 - Short term/Revision history managed by Volume Shadow Copy services/Change capture script
 - Long term by Tivoli Hot Storage Solution



Change Control for Repository

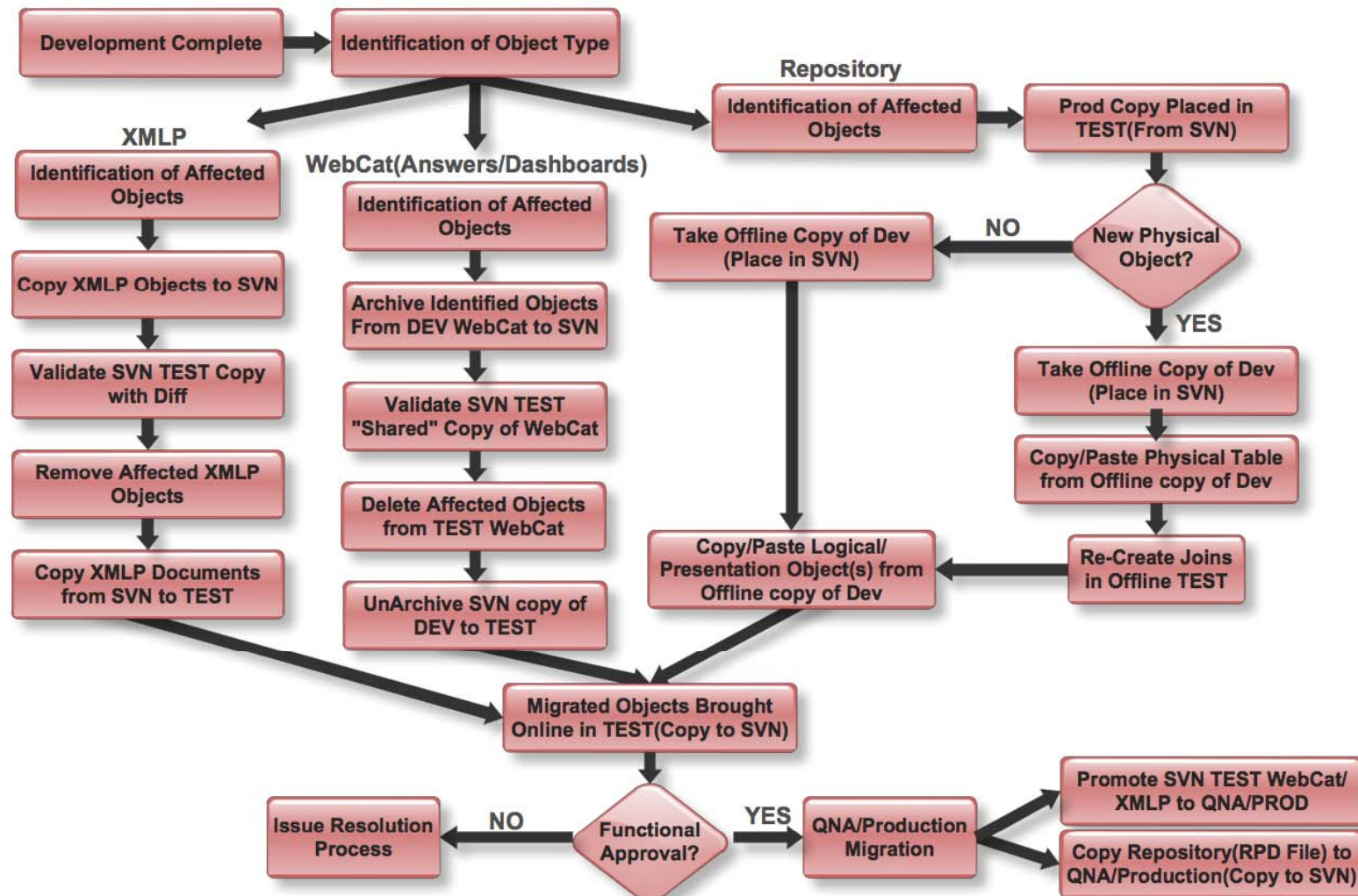
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- Metadata changes are primarily driven by reports
- Variety of methods are used to migrate metadata
 - Copy UDML from Source to Target
 - Manual development in target
 - Scripted full repository copies from source to target
- Backup/restore enabled
 - SubVersion
 - Short term/Revision history managed by Volume Shadow Copy services
 - Long term by Tivoli Hot Storage Solution
 - Migration scripts to create backups



OBIEE Change Control Process

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Case 1 – KK to GL Reporting

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Scenario

- The University needs the ability to track budget, expended, encumbered, and remaining balances across various levels of the University.
- Information is needed for the Financial management of the University and the EPM Warehouse is expected to provide this insight.
- As delivered EPM 9.0 only captured the expended balanced, not the other necessary components.
- To meet this need we customized the delivered EPM Product.



Case 1 – KK to GL Reporting

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Analysis Highlights

- Budget and Encumbrance Balances are stored in the Commitment Control Module.
- Available Balance = Budget-Encumbrance-Expenses
- For the current reports only data from specific ledgers are necessary.
- For Project-based reporting data must be shown since the inception of the project (“Life to Date”). For Non-Project based reports data must be shown from a “Year to Date” perspective.
- To report across various levels the OLTP Trees for Department, Fund Code, and Account are needed.
- Needed for Production and Adhoc Reporting.



Case 1 – KK to GL Reporting

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Analysis Highlights (Cont.)

- Technical Direction
 - Need Fact table for Commitment Control Summary data
 - Need Consolidated Fact table (GL & KK)
 - Will use incremental loading techniques
 - Need to create Fund Tree Hierarchy
 - Due to the volume of data special consideration must be given to optimizing query performance.
 - Load data from all KK Ledgers into fact table

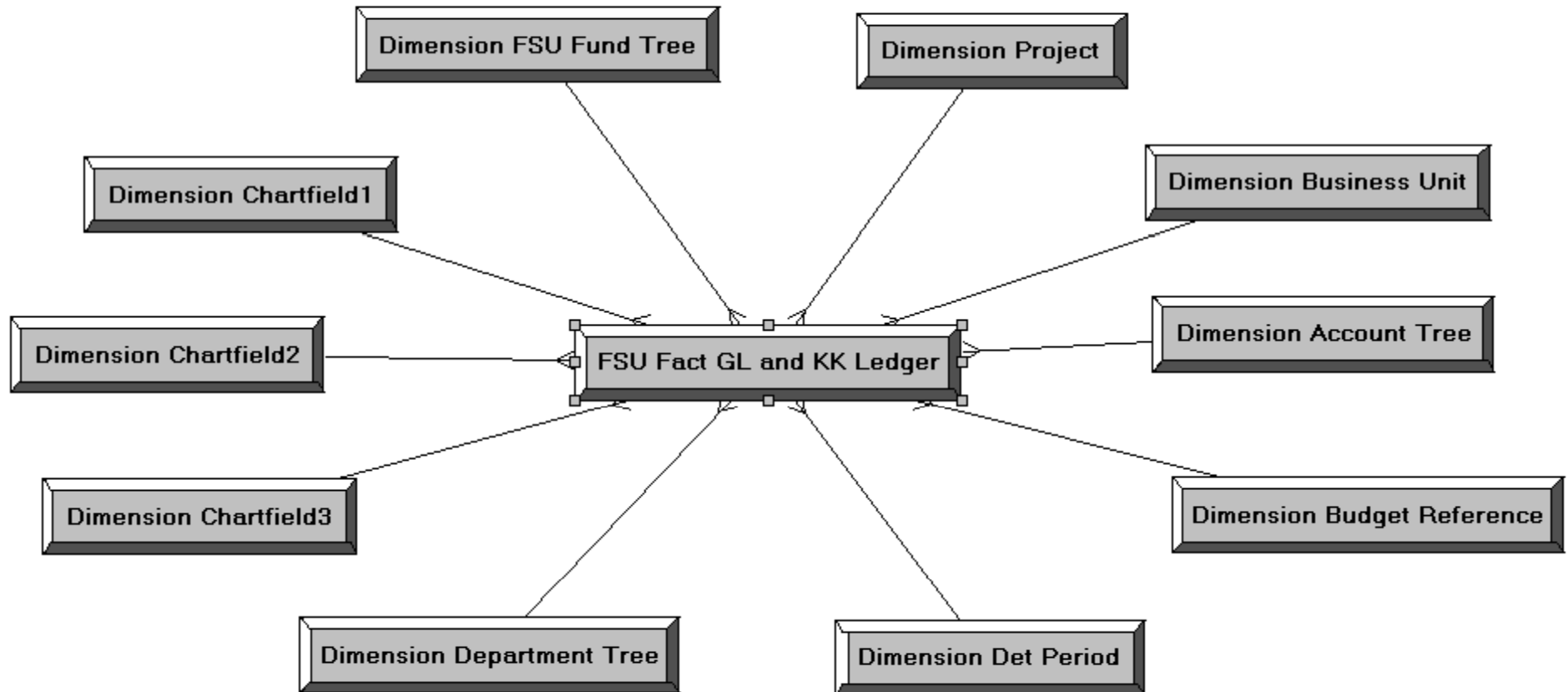
Scenario – With the implementation of the OMNI Financial Application in 2004, the University's financial transactions were no longer stored in the



Case 1 – KK to GL Reporting

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Data Model





Case 1 – KK to GL Reporting

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DB Object Development

Application Designer - FSU_F_LEDCONSOL - [FSU_F_LEDCONSOL (Record)]

File Edit View Insert Build Debug Tools Go Window Help

FSU_F_LEDCONSOL

- Fields
- Records
- FSU_F_LEDCONSOL

Record Fields Record Type

Num	Field Name	Type	Len	Format	Short Name	Long Name
1	BU_SID	Nbr	10	Raw B	Bus Unit SID	Business Unit Surrogate
2	PPERIOD_SID	Nbr	10	Raw B	Pttn Prd SID	Pattern Period SID
3	BPERIOD_SID	Nbr	10	Raw B	Bdgt Prd SID	Budget Period SID
4	LEDGER_SID	Nbr	10	Raw B	LEDGER_SID	Ledger Sur-key (E/E1)
5	ACCOUNT_SID	Nbr	10	Raw B	ACCOUNT_SID	ACCOUNT_SID
6	ALT_ACCT_SID	Nbr	10	Raw B	ALT_ACCT_SID	ALT_ACCT_SID
7	DEPT_SID	Nbr	10	Raw B	DEPARTMENT SU	DEPARTMENT SURRO
8	SUBLEDGER_SID	Nbr	10	Raw B	SUBLEDGER_SID	Subledger Sur-key (E1)
9	AFFILIATE_BU_SID	Nbr	10	Raw B	Affl BU	AFFILIATE_BU_SID
10	OPER_UNIT_SID	Nbr	10	Raw B	OPER_UNIT_SID	Operating Unit surrogate
11	FUND_CODE_SID	Nbr	10	Raw B	FUND_CODE_SID	Fund Code Sur-key (E)
12	PR	Nbr	10	Raw B	PR	PR
13	PR	Nbr	10	Raw B	PR	PR
14	BU	Nbr	10	Raw B	BU	BU
15	ST	Nbr	10	Raw B	ST	ST
16	SO	Nbr	10	Raw B	SO	SO
17	CL	Nbr	10	Raw B	CL	CL
18	CE	Nbr	10	Raw B	CE	CE
19	PR	Nbr	10	Raw B	PR	PR
20	AF	Nbr	10	Raw B	AF	AF
21	AF	Nbr	10	Raw B	AF	AF
22	BO	Nbr	10	Raw B	BO	BO
23	AD	Nbr	10	Raw B	AD	AD
24	CL	Nbr	10	Raw B	CL	CL
25	CHARTFIELD1_SID	Nbr	10	Raw B	Chartfield	Chartfield 1 Sur-key
26	CHARTFIELD2_SID	Nbr	10	Raw B	Chartfield	Chartfield 2 Sur-key
27	CHARTFIELD3_SID	Nbr	10	Raw B	Chartfield	Chartfield 3 Sur-key
28	BEG_AMT	Nbr	25.3		Beg. Amount	Period Beginning Amt
29	END_AMT	Nbr	25.3		End Amount	Period End (BEG+NET)
30	NET_AMT	Nbr	25.3		Net Period Amt	Net Period Amt
31	FSU_BEG_BUDG_AMT	Nbr	25.3		Beg. Amount	Period Beginning Amt
32	FSU_END_BUDG_AMT	Nbr	25.3		End Amount	Period End (BEG+NET)
33	FSU_NET_BUDG_AMT	Nbr	25.3		Net Period Amt	Net Period Amt
34	FSU_BEG_PRJBUD_AMT	Nbr	25.3		Beg. Amount	Period Beginning Amt
35	FSU_END_PRJBUD_AMT	Nbr	25.3		End Amount	Period End (BEG+NET)
36	FSU_NET_PRJBUD_AMT	Nbr	25.3		Net Period Amt	Net Period Amt
37	FSU_BEG_ENC_AMT	Nbr	25.3		Beg. Amount	Period Beginning Amt
38	FSU_END_ENC_AMT	Nbr	25.3		End Amount	Period End (BEG+NET)
39	FSU_NET_ENC_AMT	Nbr	25.3		Net Period Amt	Net Period Amt
40	FSU_BEG_KKEXP_AMT	Nbr	25.3		Beg. Amount	Period Beginning Amt
41	FSU_END_KKEXP_AMT	Nbr	25.3		End Amount	Period End (BEG+NET)
42	FSU_NET_KKEXP_AMT	Nbr	25.3		Net Period Amt	Net Period Amt

Projects are used to organize objects.

Development Upgrade

Opening project ...
1 Records definition(s) in project.
3 Fields definition(s) in project.
4 total definition(s) in project.

Build Upgrade Results Validate Find Definition References

Ready SPRDDW NUM



Case 1 – KK to GL Reporting

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ETL Design

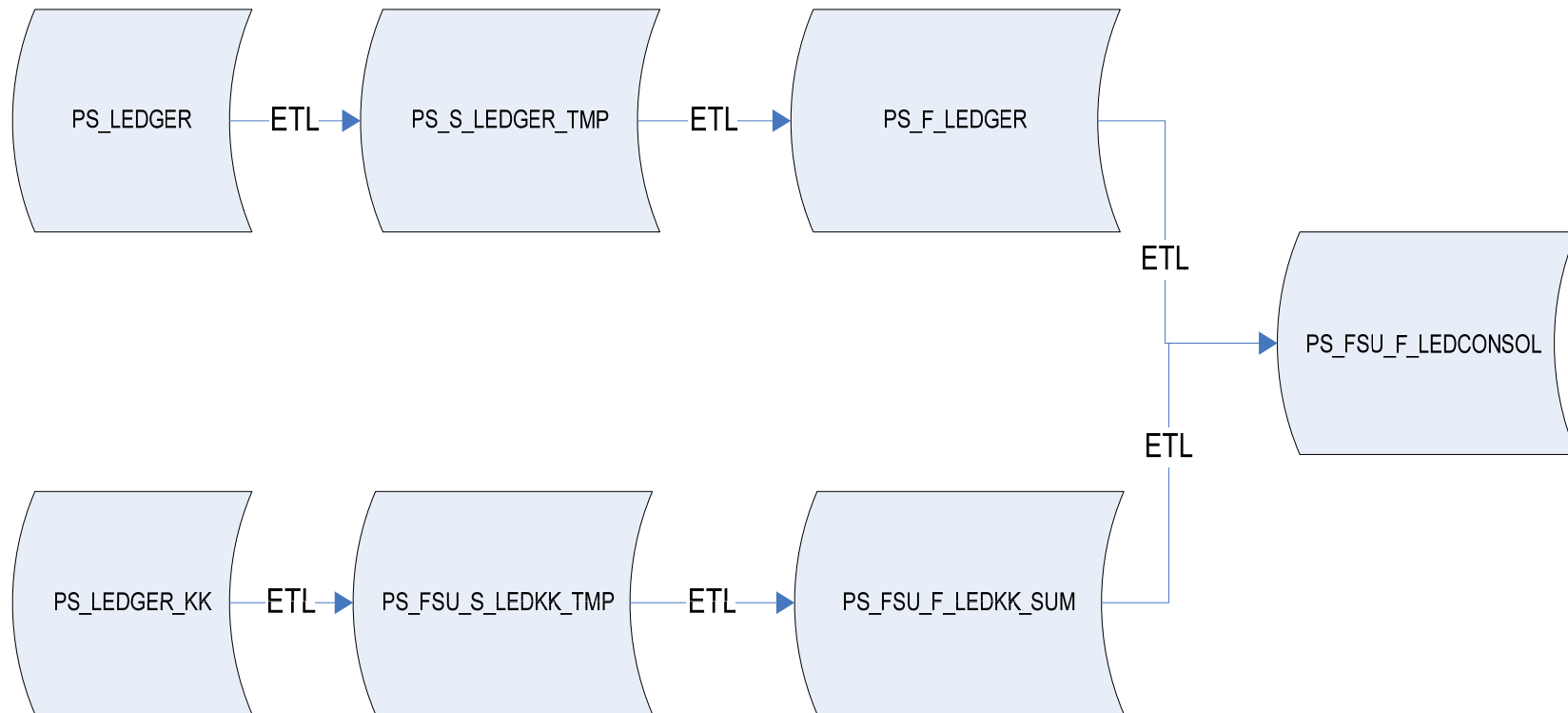
- Location of Custom Processes
 - FSU_Custom\FMS_E\Custom_Facts\Committment_Control
- Three custom tables to load:
 - FSU_S_LEDKK_TMP (OWS)
 - FSU_F_LEDKK_SUM (MDW)
 - FSU_F_LEDCONSOL (MDW)
- No new dimension ETL are necessary. Mart will use the delivered Global Dimensions.
- Leverage the design of the delivered GL Summary ETL Process.
- Load data incrementally from OWS and Base Fact table



Case 1 – KK to GL Reporting

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ETL Design

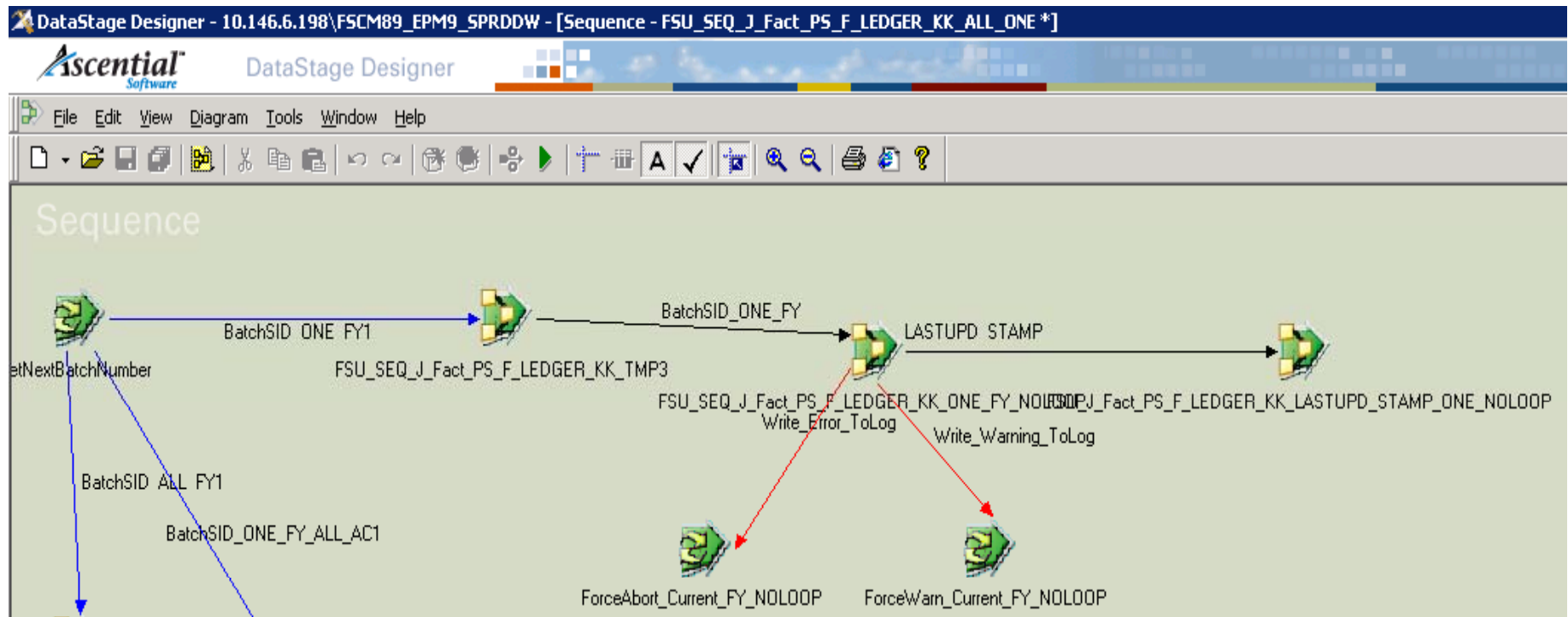




Case 1 – KK to GL Reporting

ETL Development

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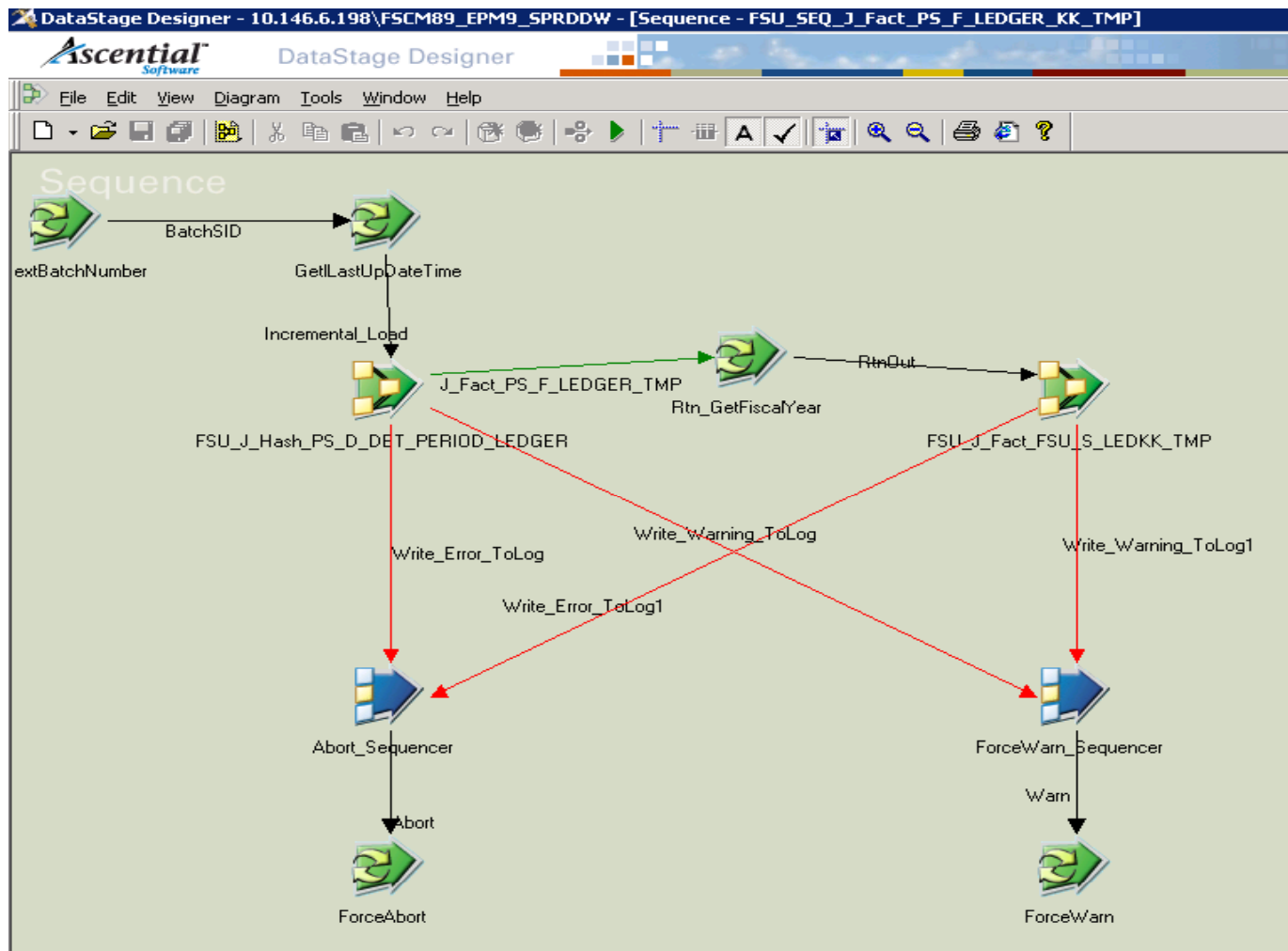




Case 1 – KK to GL Reporting

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ETL Development

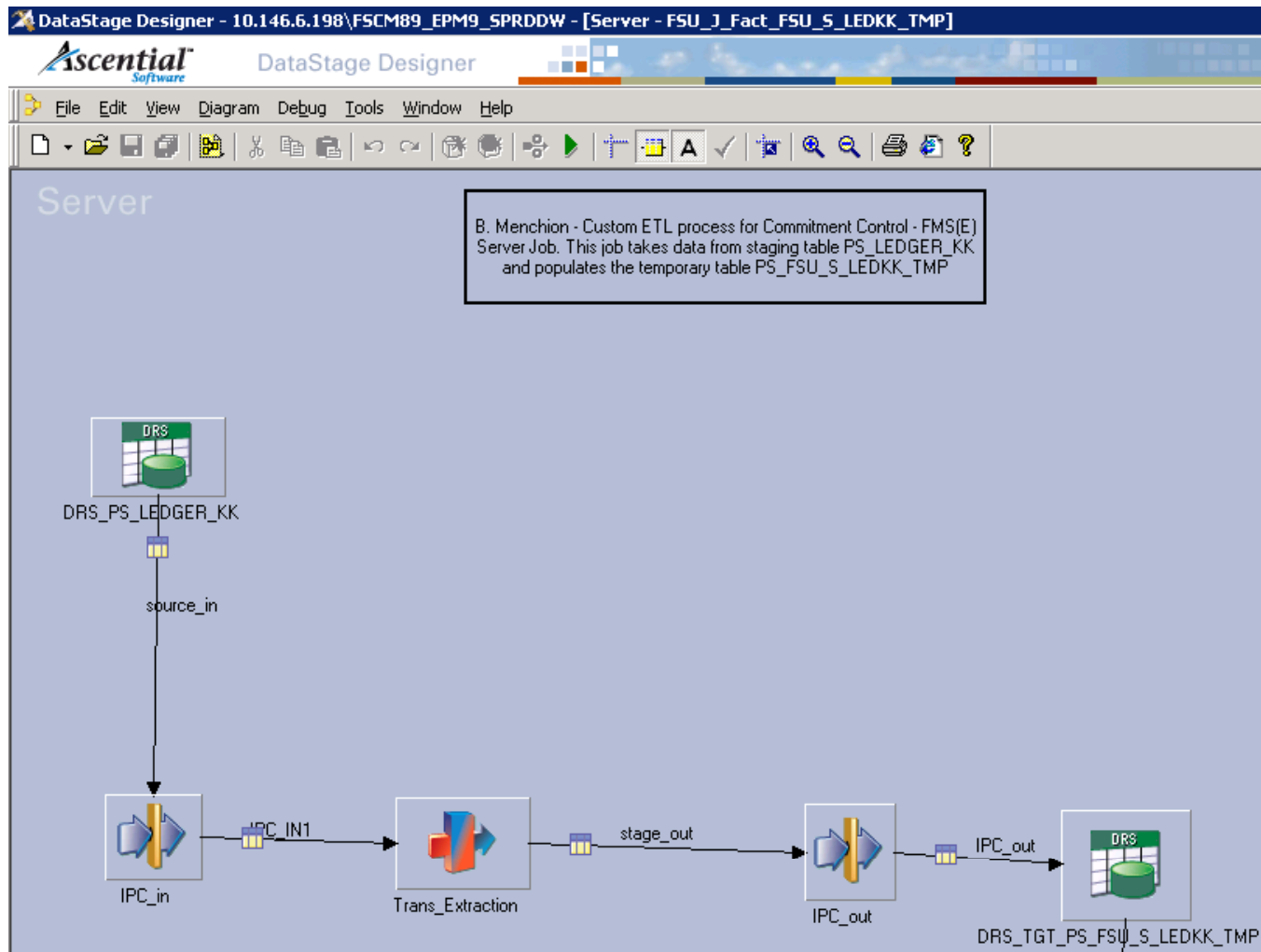


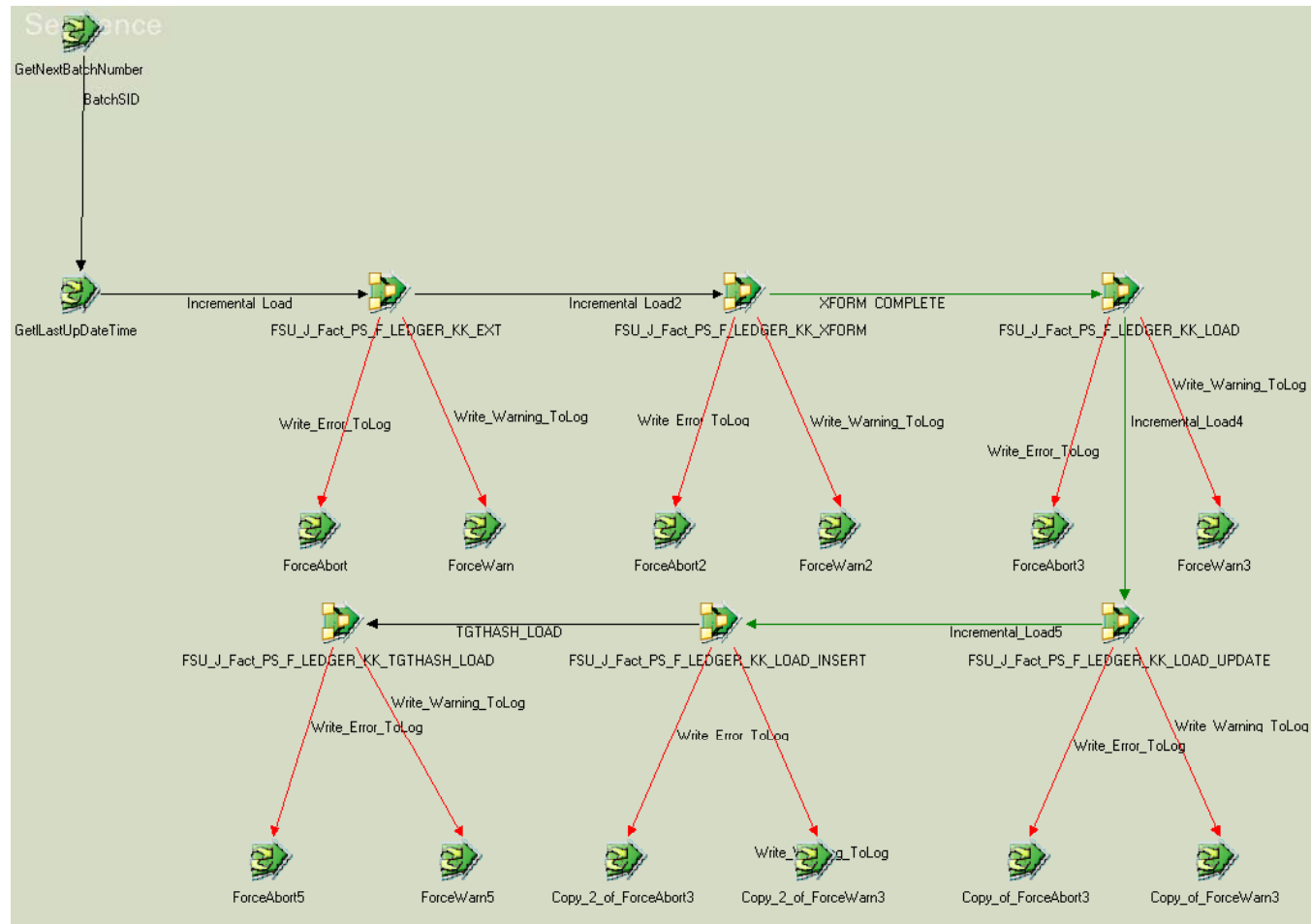


Case 1 – KK to GL Reporting

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ETL Development







Case 1 – KK to GL Reporting

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ETL Development

GetLastUpDateTime - Routine Activity

General Routines Triggers

Routine name
GetLastUpDateTime

Arguments

Name	Value Expression
JobName	"FSU_J_Fact_PS_F_LEDGER_KK_LASTUPD_STAMP"

Insert Parameter Value
Clear
Clear All

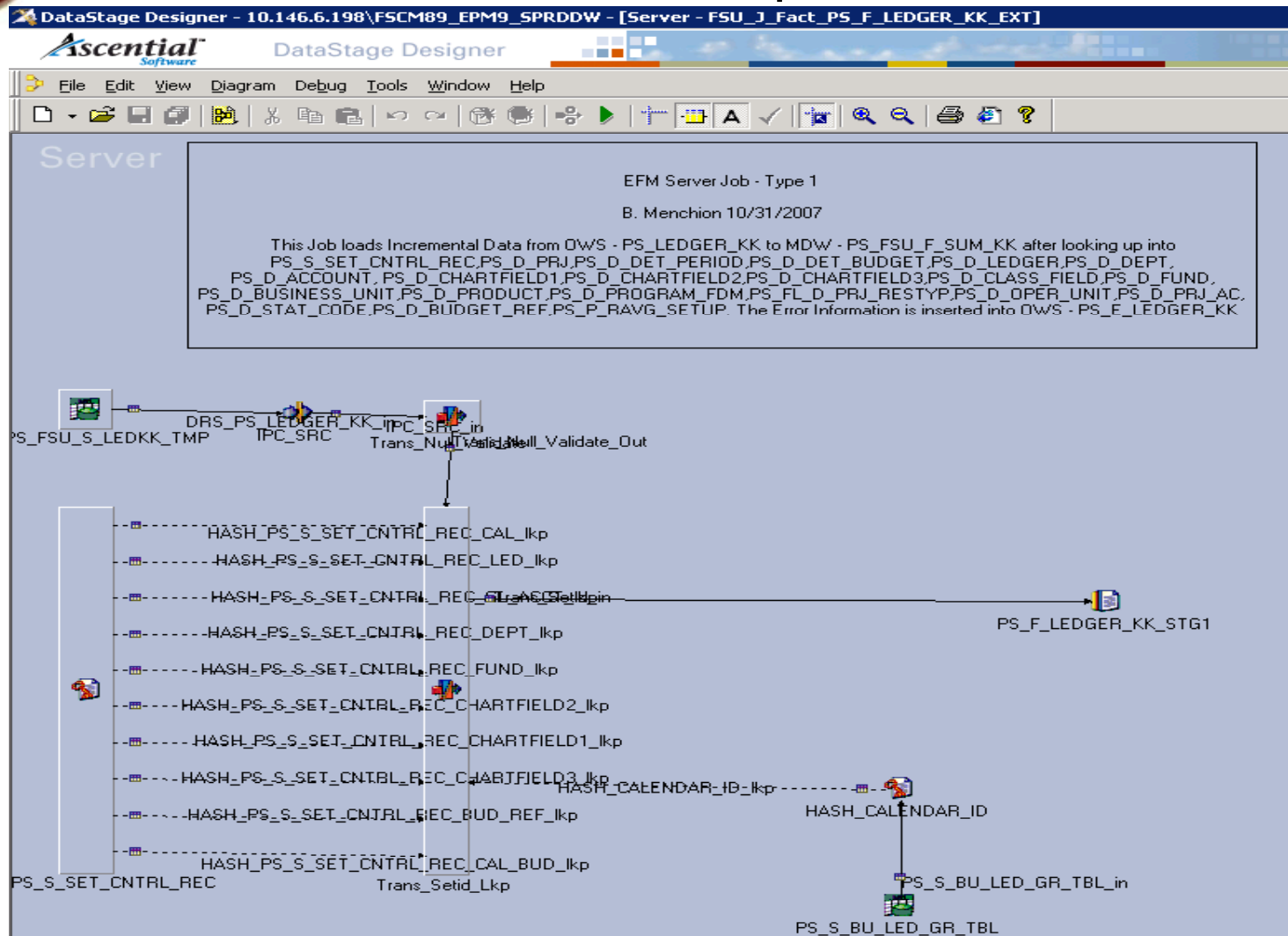
OK Cancel Help



Case 1 – KK to GL Reporting

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ETL Development

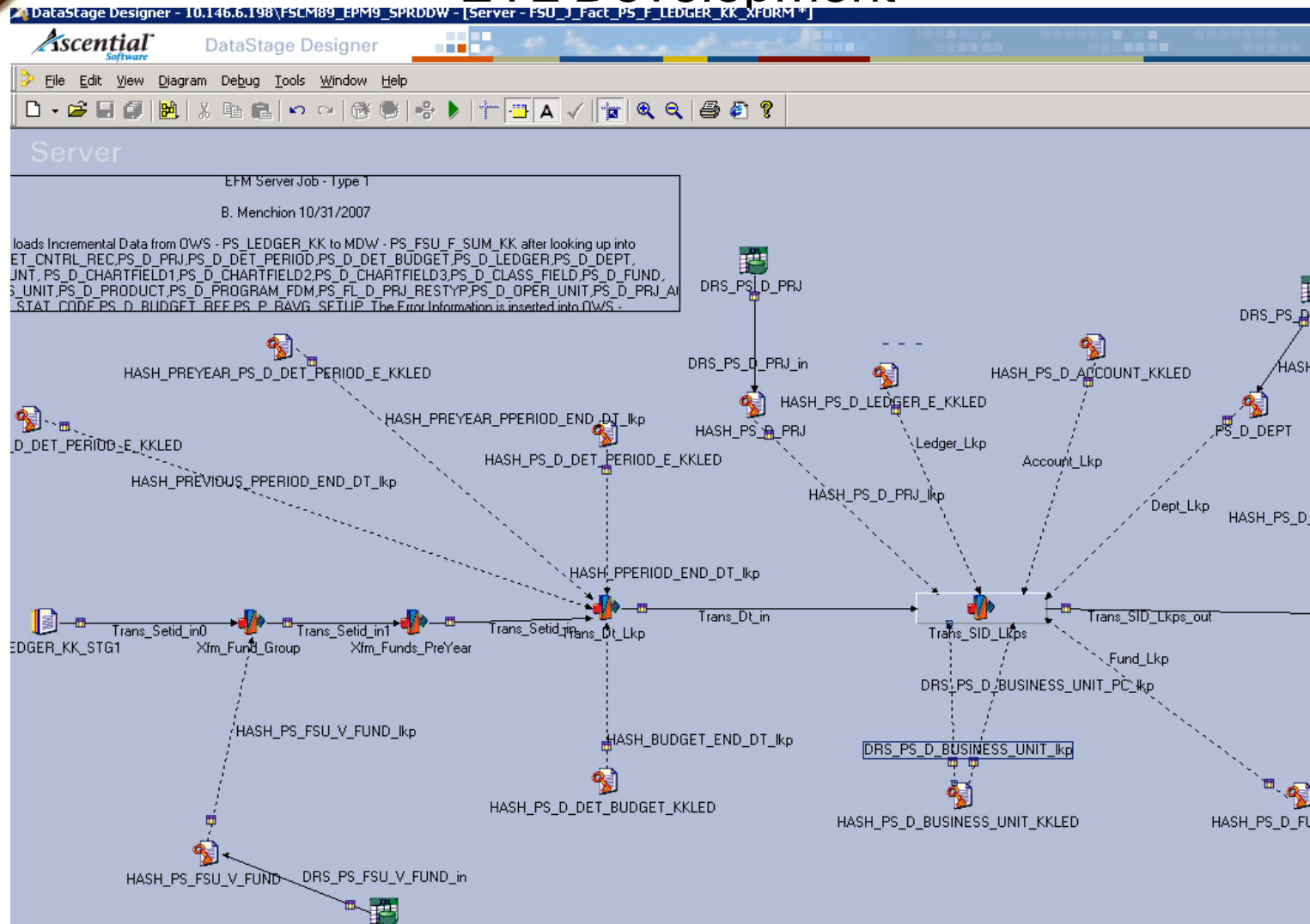




Case 1 – KK to GL Reporting

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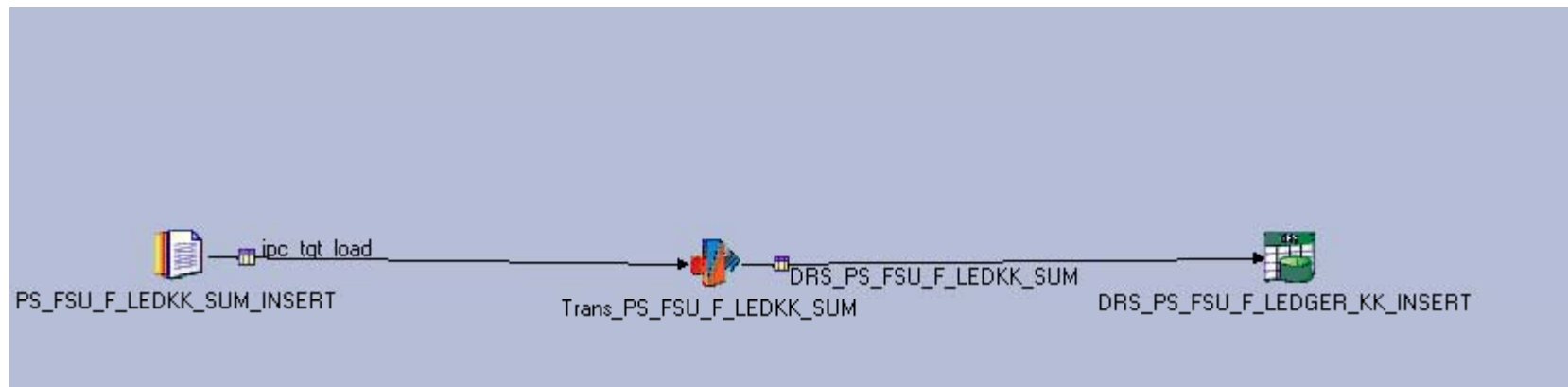
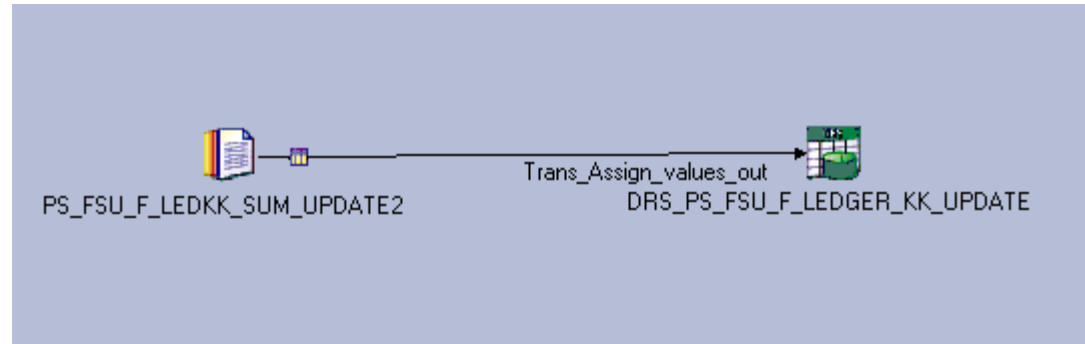




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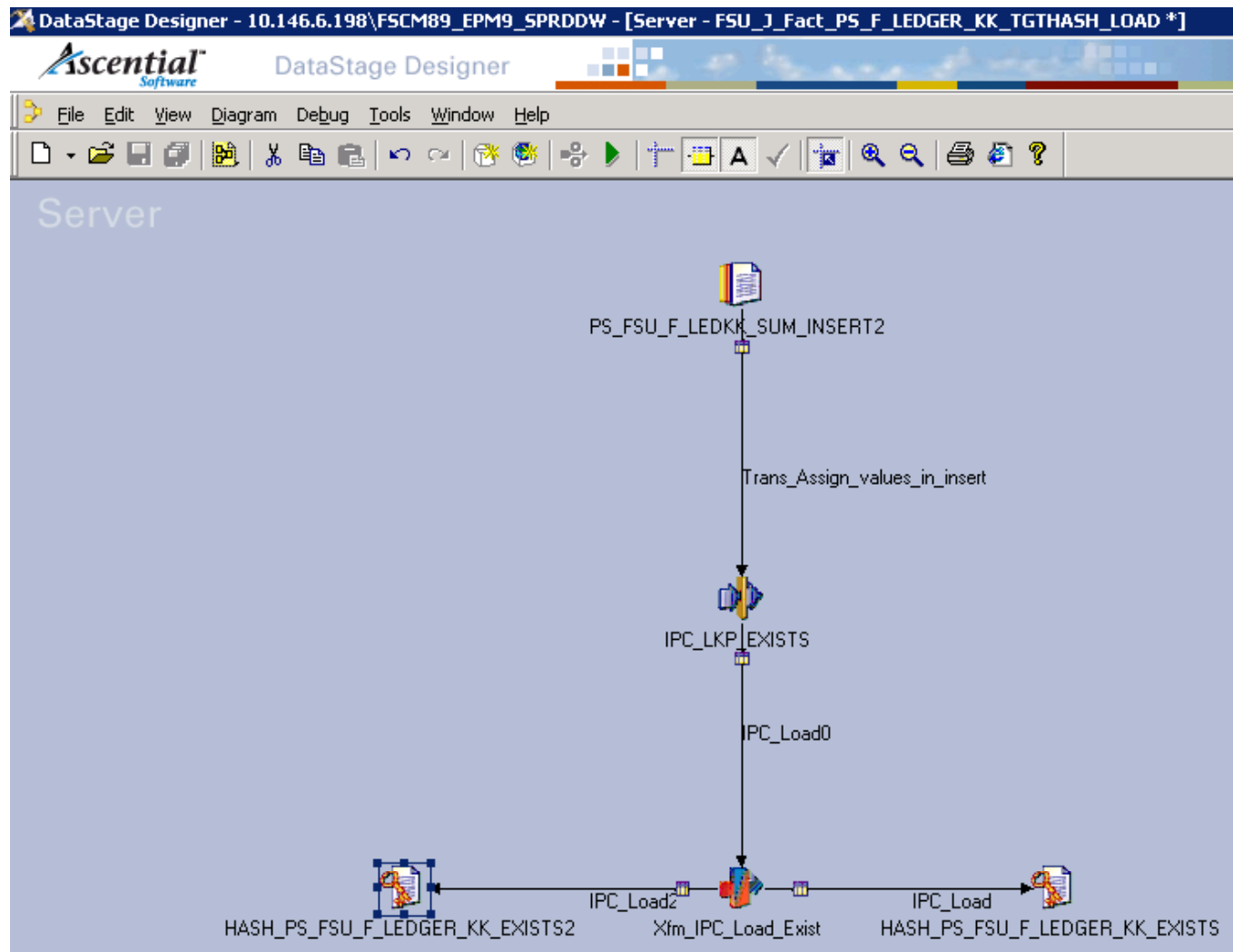




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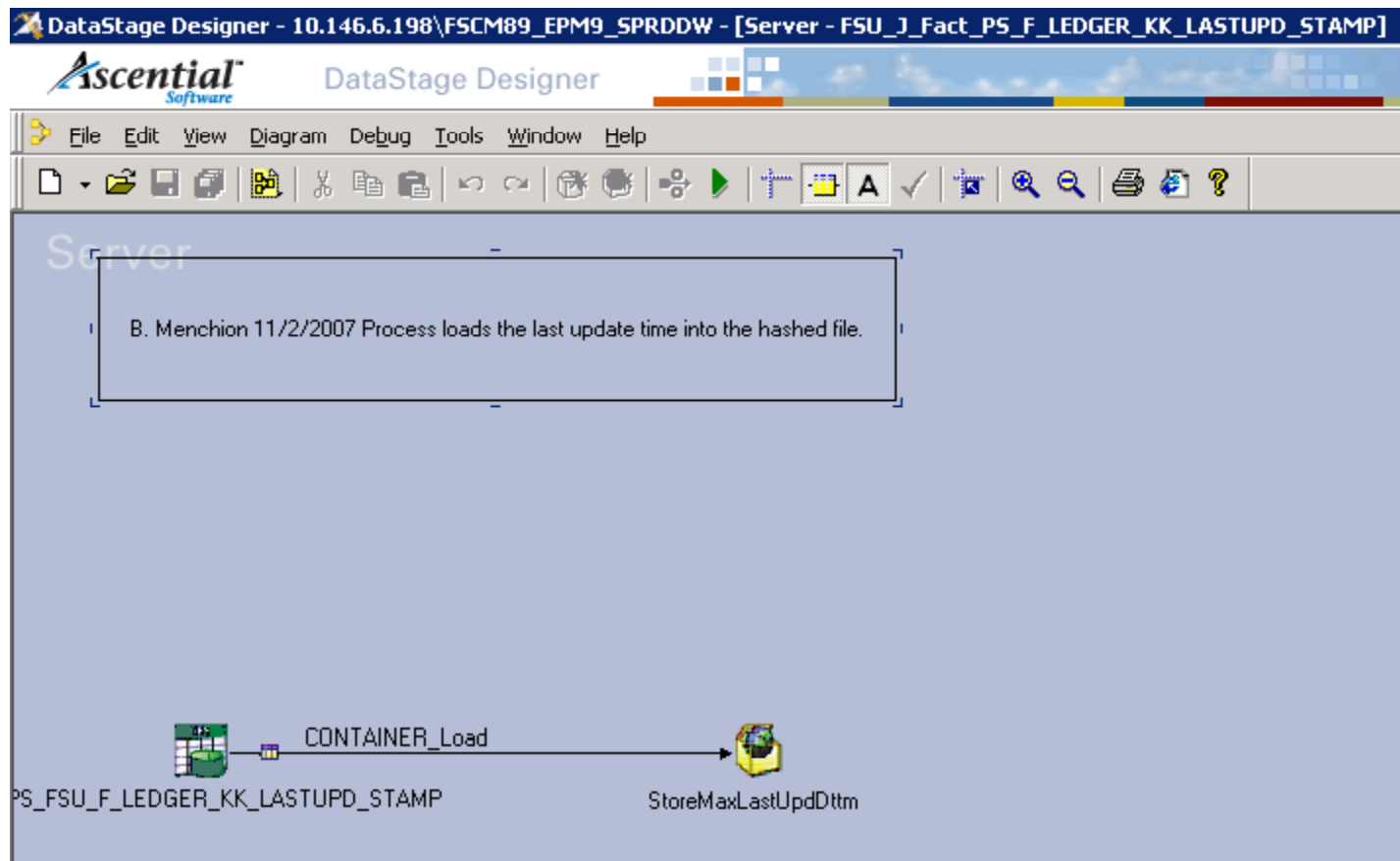




Case 1 – KK to GL Reporting

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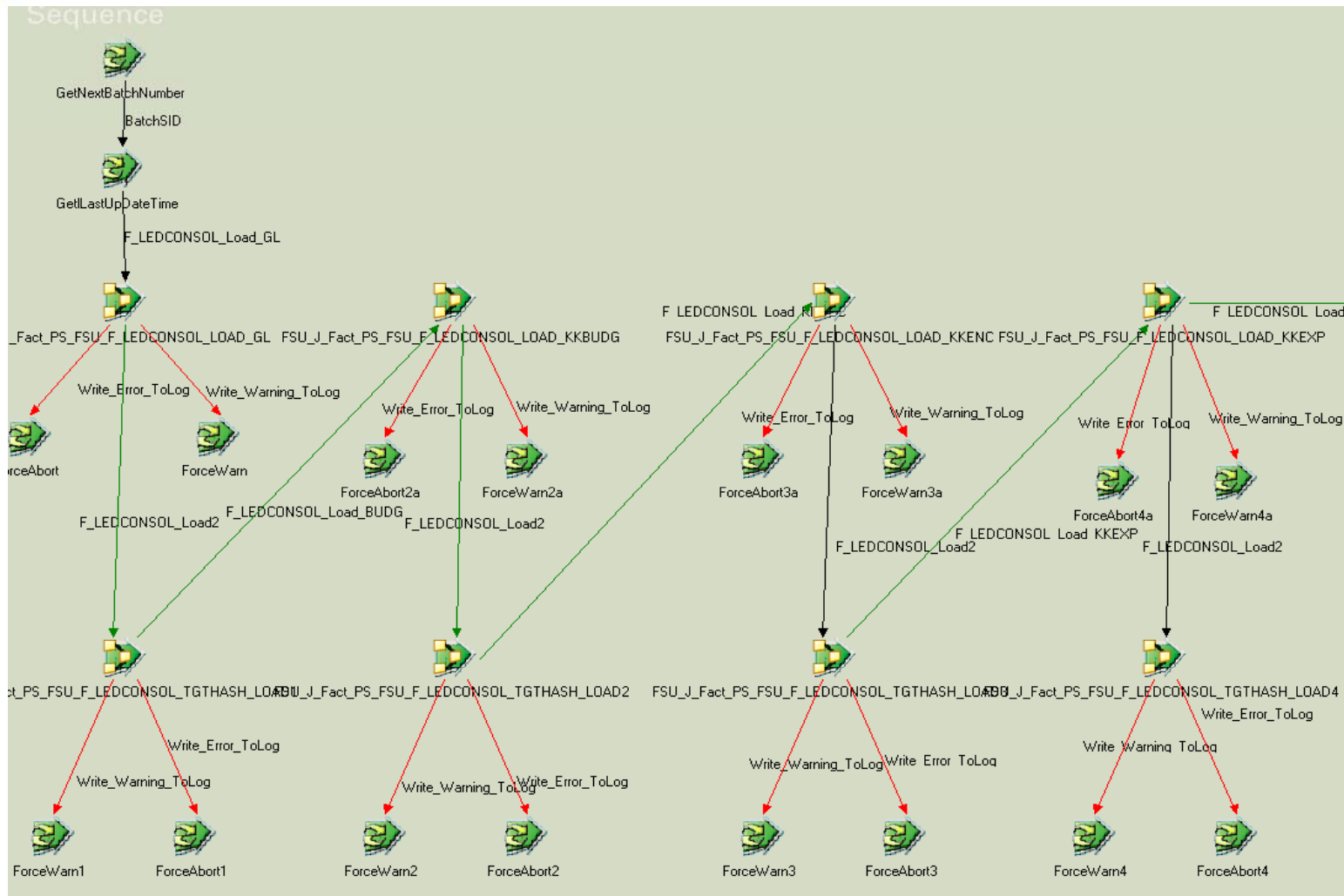




Case 1 – KK to GL Reporting

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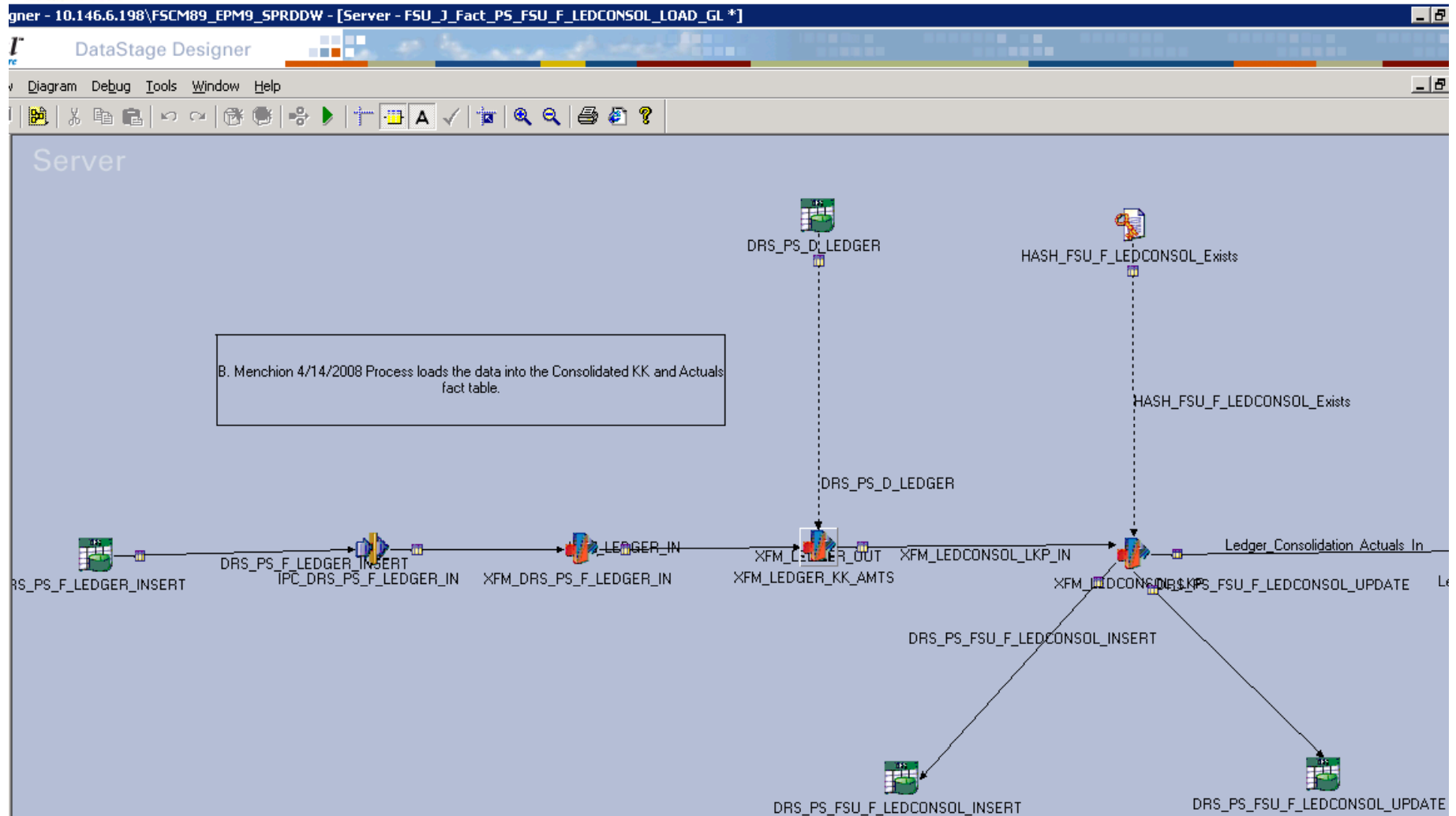




Case 1 – KK to GL Reporting

ETL Development

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Case 1 – KK to GL Reporting

ETL Development

M_LEDGER_KK_AMTS - Transformer Stage

Stage Variables

Derivation	Stage Variable
------------	----------------

XFM_LEDGER_KK_OUT

- CBU_SID
- BU_SID
- PPERIOD_SID
- BPERIOD_SID
- LEDGER_SID
- ACCOUNT_SID
- ALT_ACCT_SID
- DEPT_SID

DRS_PS_D_LEDGER

Column Name
LEDGER_SID
SRC_SETID
LEDGER
EFF_START_DT
EFF_END_DT
SRC_SYS_ID

XFM_LEDCONSOL_LKP_IN

Constraint	Column Name
Derivation	
XFM_LEDGER_KK_OUT.CBU_SID	CBU_SID
XFM_LEDGER_KK_OUT.PROGRAM_FDM_SID	PROGRAM_FDM_SID
XFM_LEDGER_KK_OUT.AFF_OU_SID	AFF_OU_SID
XFM_LEDGER_KK_OUT.AFF_FUND_SID	AFF_FUND_SID
XFM_LEDGER_KK_OUT.BOOK_CODE_SID	BOOK_CODE_SID
XFM_LEDGER_KK_OUT.ADJUST_TYPE_SID	ADJUST_TYPE_SID
XFM_LEDGER_KK_OUT.CLASS_FIELD_SID	CLASS_FIELD_SID
XFM_LEDGER_KK_OUT.CHARTFIELD1_SID	CHARTFIELD1_SID
XFM_LEDGER_KK_OUT.CHARTFIELD2_SID	CHARTFIELD2_SID
XFM_LEDGER_KK_OUT.CHARTFIELD3_SID	CHARTFIELD3_SID
DRS_PS_D_LEDGER.LEDGER	LEDGER
If (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	BEG_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	NET_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	END_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_BUDG_AM
If (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_BUDG_AM
If (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_BUDG_AM
If (DRS_PS_D_LEDGER.LEDGER = 'KGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDBUD') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_PRJBUD_A
If (DRS_PS_D_LEDGER.LEDGER = 'KGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDBUD') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_PRJBUD_A
If (DRS_PS_D_LEDGER.LEDGER = 'KGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDBUD') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_PRJBUD_A
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDENC') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_ENC_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDENC') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_ENC_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDENC') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_ENC_AMT
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDEXP') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_KKEXP_AM
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDEXP') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_KKEXP_AM
If (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KGMCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KPCCHDEXP') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_KKEXP_AM
XFM_LEDGER_KK_OUT.SRC_SYS_ID	SRC_SYS_ID



Case 1 – KK to GL Reporting

ETL Development

M_LEDGER_KK_AMTS - Transformer Stage

Stage Variables

Derivation	Stage Variable
------------	----------------

XFM_LEDGER_KK_OUT

- CBU_SID
- BU_SID
- PPERIOD_SID
- BPERIOD_SID
- LEDGER_SID
- ACCOUNT_SID
- ALT_ACCT_SID
- DEPT_SID

DRS_PS_D_LEDGER

Column Name

XFM_LEDCONSOL_LKP_IN

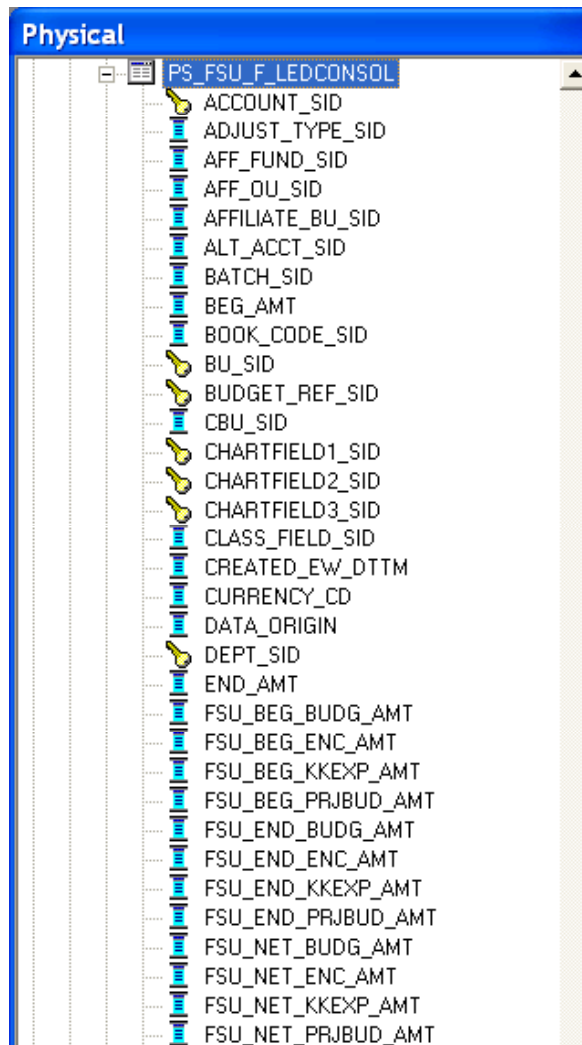
Constraint	Column Name
Derivation	
XFM_LEDGER_KK_OUT.CBU_SID	CBU_SID
XFM_LEDGER_KK_OUT.PROGRAM_FDM_SID	PROGRAM_FDM_SID
XFM_LEDGER_KK_OUT.AFF_OU_SID	AFF_OU_SID
XFM_LEDGER_KK_OUT.AFF_FUND_SID	AFF_FUND_SID
XFM_LEDGER_KK_OUT.BOOK_CODE_SID	BOOK_CODE_SID
XFM_LEDGER_KK_OUT.ADJUST_TYPE_SID	ADJUST_TYPE_SID
XFM_LEDGER_KK_OUT.CLASS_FIELD_SID	CLASS_FIELD_SID
XFM_LEDGER_KK_OUT.CHARTFIELD1_SID	CHARTFIELD1_SID
XFM_LEDGER_KK_OUT.CHARTFIELD2_SID	CHARTFIELD2_SID
XFM_LEDGER_KK_OUT.CHARTFIELD3_SID	CHARTFIELD3_SID
DRS_PS_D_LEDGER.LEDGER	LEDGER
IF (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	BEG_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	NET_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'ACTUALS') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	END_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_BUDG_AM
IF (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_BUDG_AM
IF (DRS_PS_D_LEDGER.LEDGER = 'CC_BUD' OR DRS_PS_D_LEDGER.LEDGER = 'CC_REV_BUD') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_BUDG_AM
IF (DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDBUD') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_PRJBUD_A
IF (DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDBUD') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_PRJBUD_A
IF (DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDBUD' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDBUD') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_PRJBUD_A
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDENC') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_ENC_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDENC') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_ENC_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_ENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDENC' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDENC') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_ENC_AMT
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDEXP') THEN XFM_LEDGER_KK_OUT.BEG_AMT ELSE 0.00	FSU_BEG_KKEXP_A
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDEXP') THEN XFM_LEDGER_KK_OUT.NET_AMT ELSE 0.00	FSU_NET_KKEXP_A
IF (DRS_PS_D_LEDGER.LEDGER = 'KK_DTL_EXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKPCCHDEXP' OR DRS_PS_D_LEDGER.LEDGER = 'KKGMCHDEXP') THEN XFM_LEDGER_KK_OUT.END_AMT ELSE 0.00	FSU_END_KKEXP_A
XFM_LEDGER_KK_OUT.SRC_SYS_ID	SRC_SYS_ID



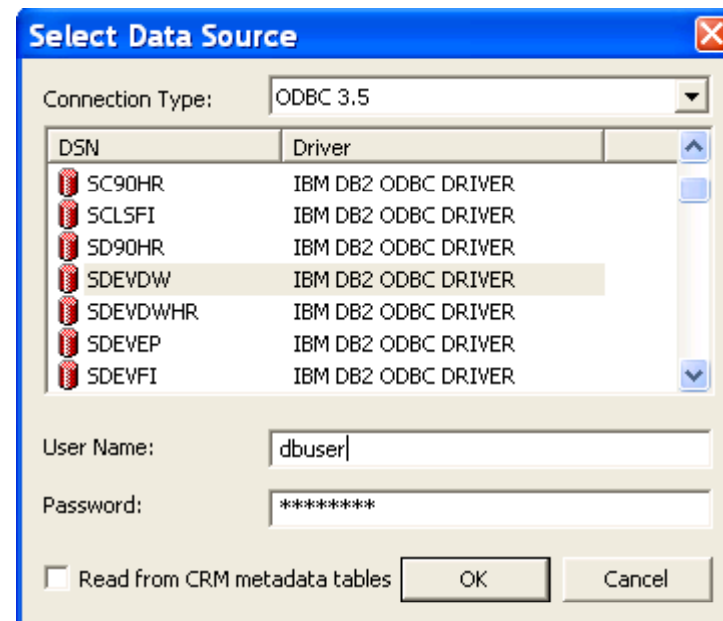
Case 1 – KK to GL Reporting

ALLIANCE 09

OBIEE Metadata Physical Layer



File>Import>From Database
Import DB Object into Physical Layer
to save time and insure consistency





Case 1 – KK to GL Reporting

ALLIANCE 09

OBIEE Metadata Physical Layer

Once filtered import the definition(s).
Key are imported as well. Now joins
can be established.

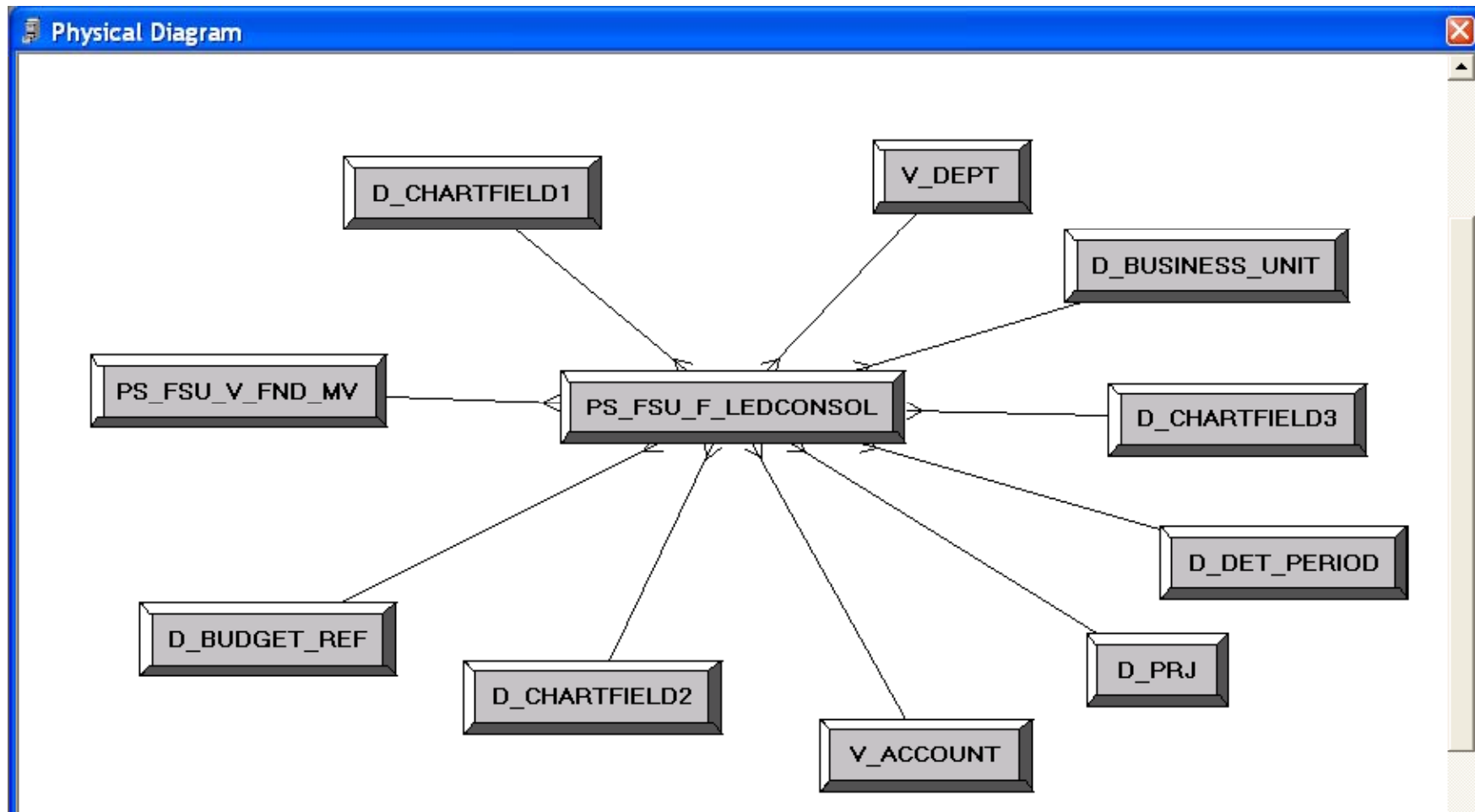
The screenshot displays the OBIEE Physical Layer interface. On the left, the 'Physical' tree shows a list of tables, with 'PS_FSU_F_LEDCONSOL' selected. Overlaid on this is the 'Import' dialog box. The 'Table name mask' field contains '%FSU_F_LEDCONSOL%'. A speech bubble points to this field with the text 'Enter name mask to filter'. The 'Select object(s) to add to physical layer:' section shows a tree structure with 'SDEVDW' and 'SPSDW' folders. Under 'SPSDW', several tables are listed, including 'PS_FSU_F_LEDCONSOL'. At the bottom of the dialog, there are checkboxes for 'Tables', 'Views', 'System tables', 'Aliases', 'Synonyms', 'Keys', and 'Foreign Keys'. The 'Import', 'Close', and 'Help' buttons are at the bottom right.



Case 1 – KK to GL Reporting

ALLIANCE 09

OBIEE Metadata Physical Layer

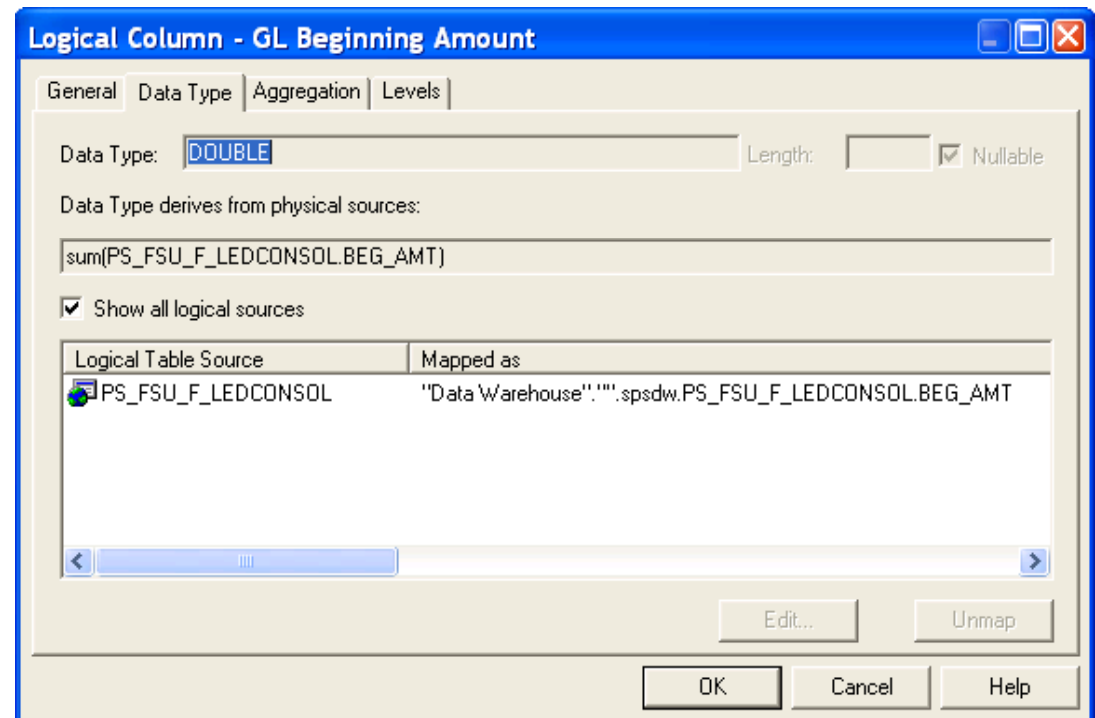
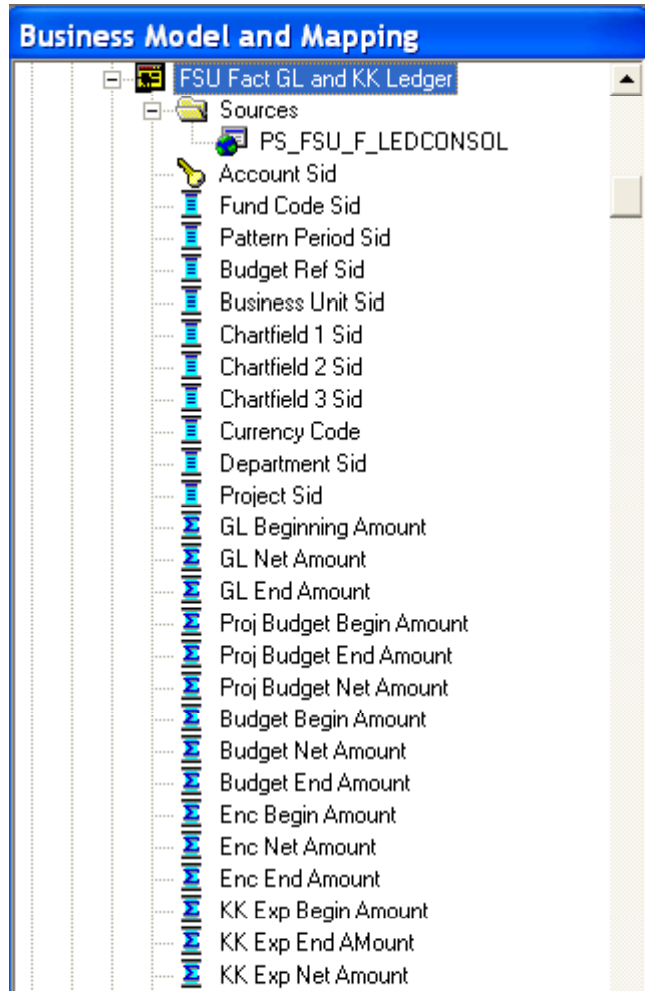




Case 1 – KK to GL Reporting

ALLIANCE'09

OBIEE Metadata Logical Layer

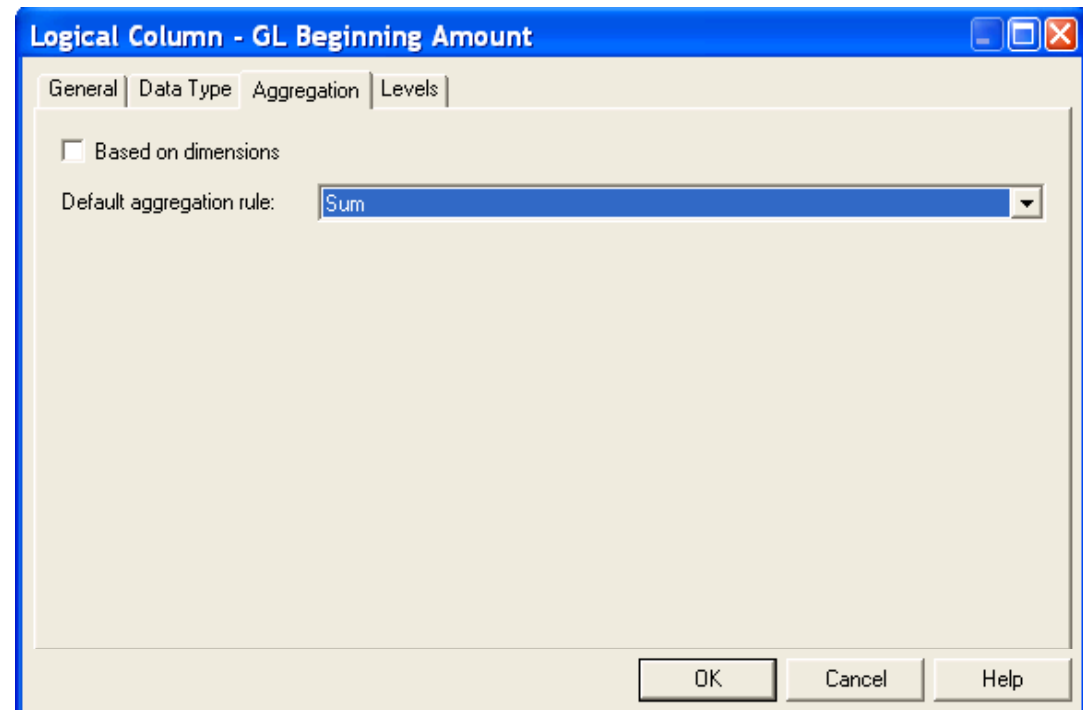
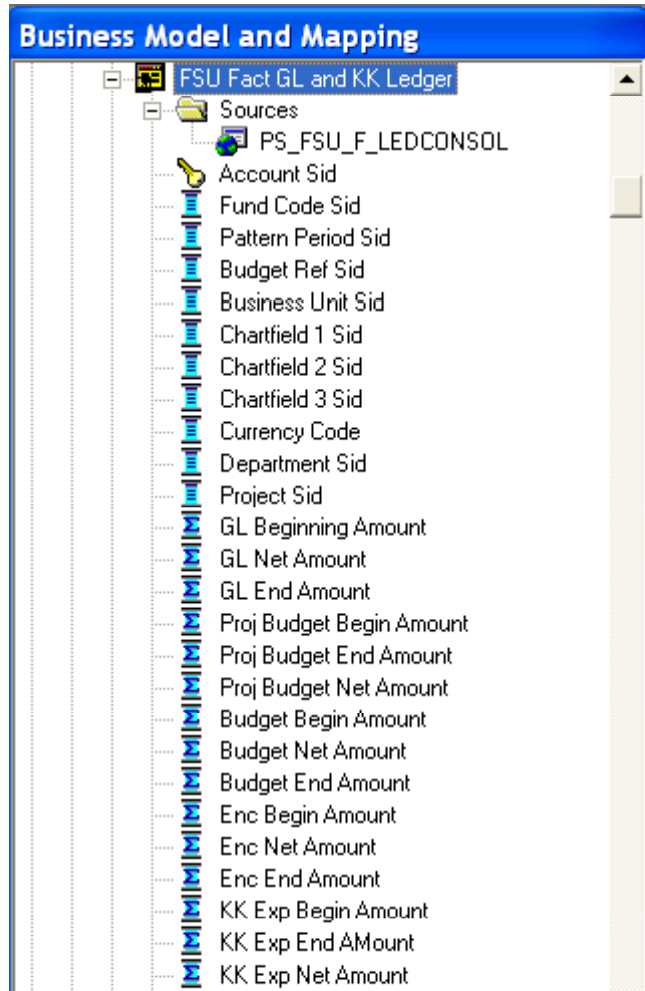




Case 1 – KK to GL Reporting

ALLIANCE'09

OBIEE Metadata Logical Layer

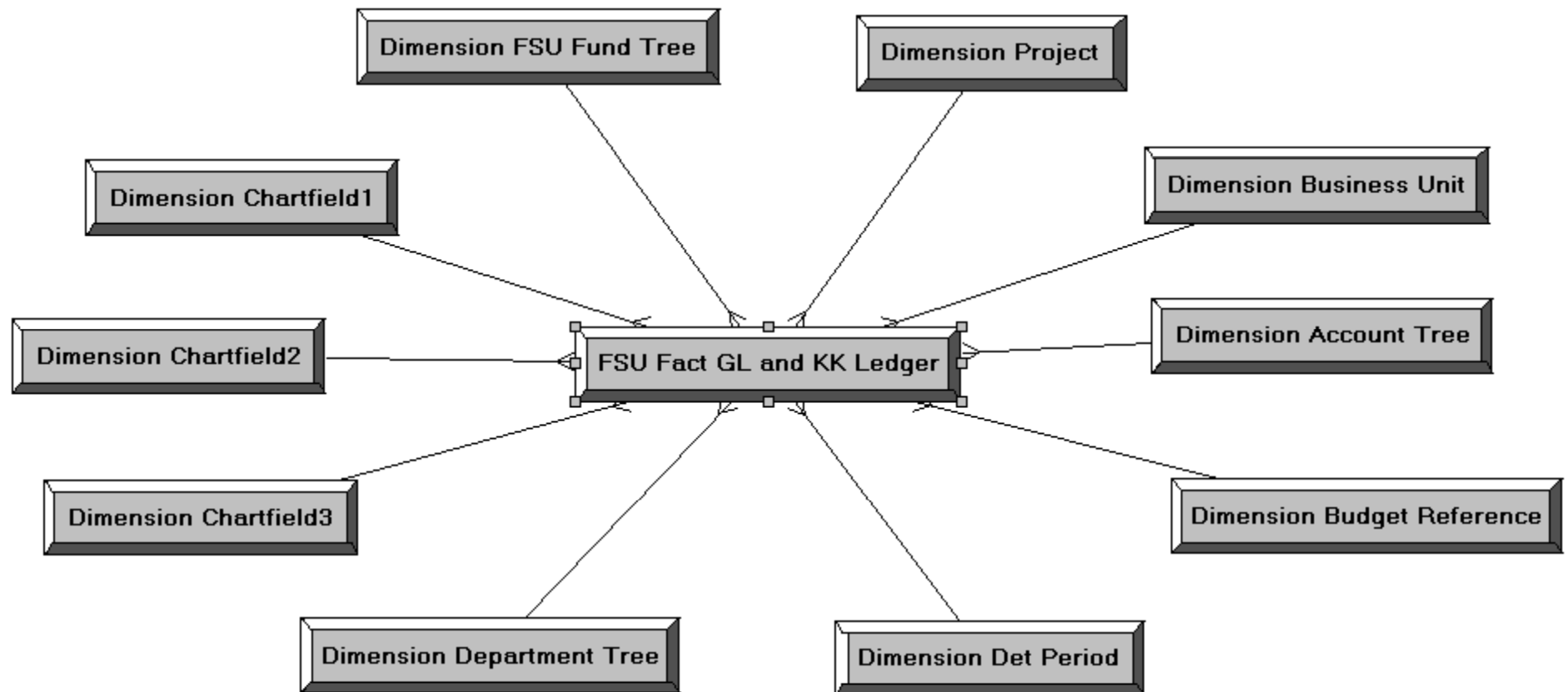




Case 1 – KK to GL Reporting

ALLIANCE '09

OBIEE Metadata Logical Layer

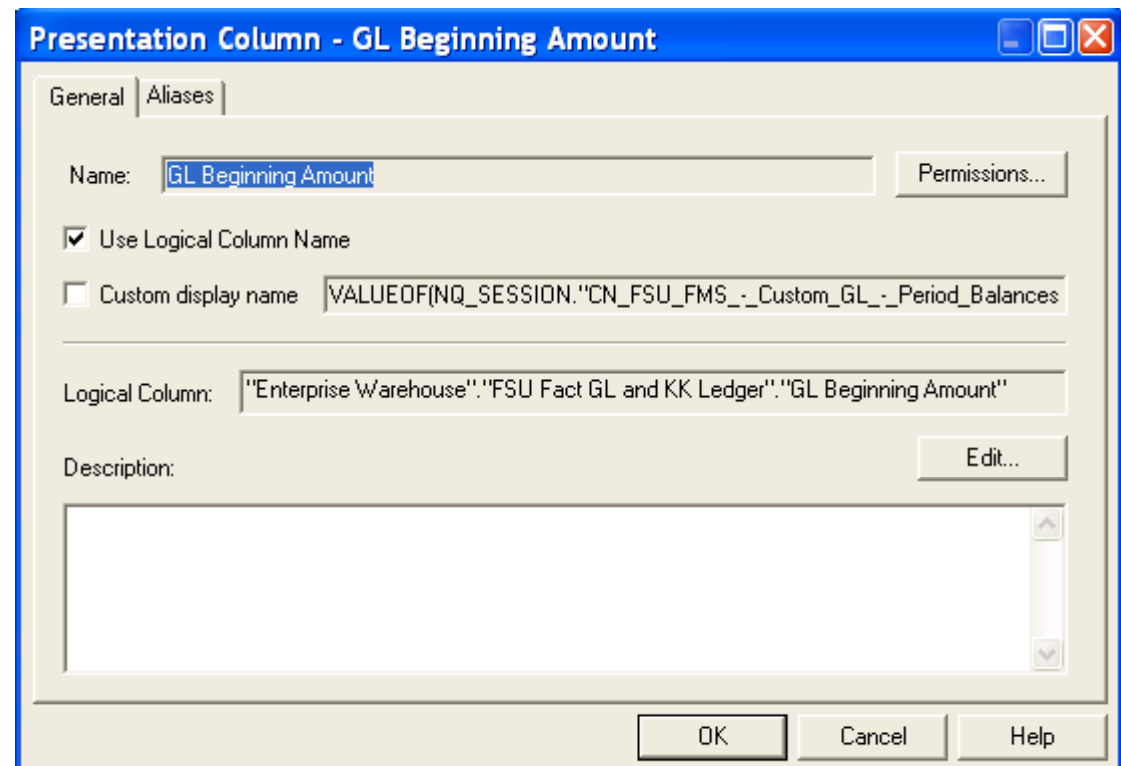
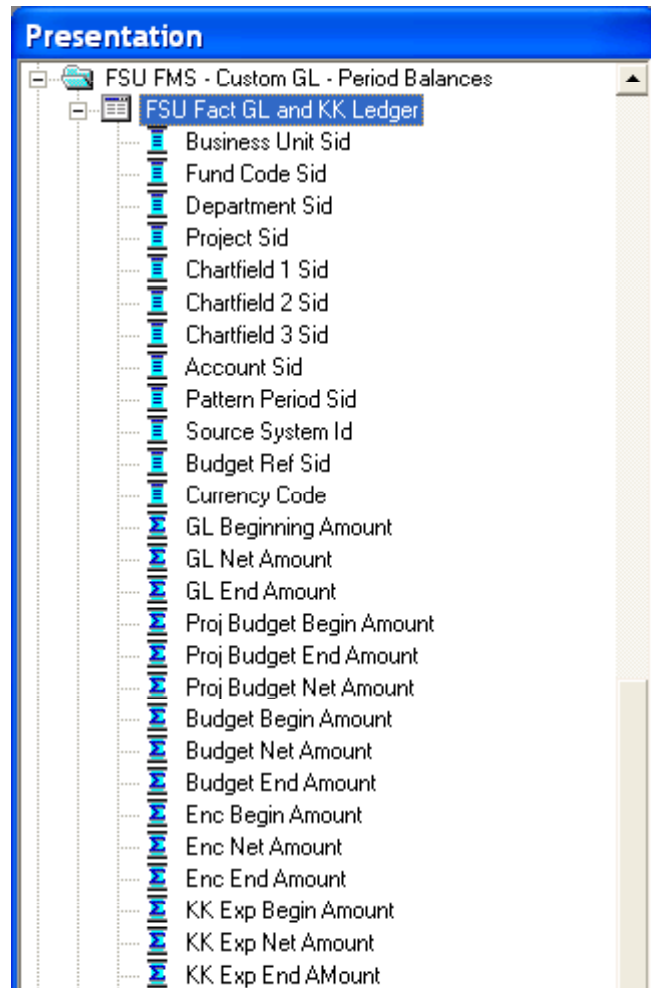




Case 1 – KK to GL Reporting

ALLIANCE 09

OBIEE Metadata Presentation Layer





Case 1 – KK to GL Reporting

ALLIANCE 09

OBIEE Embedded BI Publisher Content

Fiscal Year: 2009 Accounting Period: 8 Department: '025000 - Human Resources Fund: '110 - E&G Gen

For Departmental Ledger Details Report please click on the above Details tab and click 'Go' after selecting the prompted values and click on the 'View' button to see the report

Data contained within this report was last loaded on 3/19/2009 5:41:41 AM

Template: Departmental Ledger Summary EG PDF View Export Send Schedule Analyzer

1 / 5 61% Find

FLORIDA STATE UNIVERSITY
DEPARTMENTAL LEDGER SUMMARY (E&G)
ACCOUNTING PERIOD: 8 FISCAL YEAR: 2009
Date: 2009-03-19 22:19:51
Page 1 of 5

Department: 025000 - Human Resources
Fund: 110 - E&G General Revenue

	BUDGET	ENCUMBRANCES	EXPENSES	AVAILABLE BALANCE
Budget Salary Wages - Beginning Period Balance				
710000 Budget Salary Wages	3,142,588.00	0.00	0.00	
710121 Admin & Professional Salaries	0.00	637,600.56	1,092,763.42	
710122 A&P Separation Payout	0.00	0.00	5,160.17	
710123 A&P Sick Leave Sep Payout	0.00	0.00	6,944.24	
710124 USPS Salaries	0.00	162,969.38	240,160.18	
710125 USPS Separation Payout	0.00	0.00	4,379.50	
710128 USPS Comp Payout	0.00	0.00	182.59	
710141 Salary Social Security Match	0.00	62,047.49	78,260.34	
710142 Salary Medicare Match	0.00	14,510.87	18,766.84	
710152 Defined Benefit Retire Match	0.00	48,481.87	66,939.62	
710153 ORP Defined Contrib Match	0.00	36,572.73	49,094.27	
710154 PEORP Defined Contrib Match	0.00	15,676.78	17,636.20	
710161 Pretax Admin Assessment	0.00	0.00	3,783.02	
710172 Health Ins Employer Contrib	0.00	161,904.76	190,990.35	
710182 State Life Insurance Contrib	0.00	2,199.70	3,377.81	
710191 State Disability Ins Contrib	0.00	0.00	40.35	
Budget Salary Wages - Beginning Period Balance Total	3,142,588.00	1,342,164.14	1,778,478.90	21,944.96
Budget Salary Wages - Current Period Balance				
710121 Admin & Professional Salaries	0.00	-148,283.29	148,283.34	
710124 USPS Salaries	0.00	-38,813.09	28,629.74	
710141 Salary Social Security Match	0.00	-11,599.97	10,429.68	



Case 2 – Security Solution

ALLIANCE 09

Scenario

- FSU maintains a small support group to administer all PeopleSoft based applications. This team is responsible for building, upgrading, and patching environments, performing Peopletools based migrations and administering security.
- E-ORR was developed to automate the role assignments within the transactional system.
- Minimize the report security management effort.
- Need to derive report security from functional roles in the transactional system in an automated fashion



Case 2 – Security Solution

ALLIANCE '09

Analysis Highlights

- Functional roles will have to be assigned prior to report availability.
- There will be a one day lag before report access is granted or revoked.
- Role Mapping is defined by Functional teams. ERP Reporting team perform the necessary configuration change.
- Multiple transactional system roles can map to one OBIEE Dashboard.



Case 2 – Security Solution

ALLIANCE '09

Analysis Highlights (Cont.)

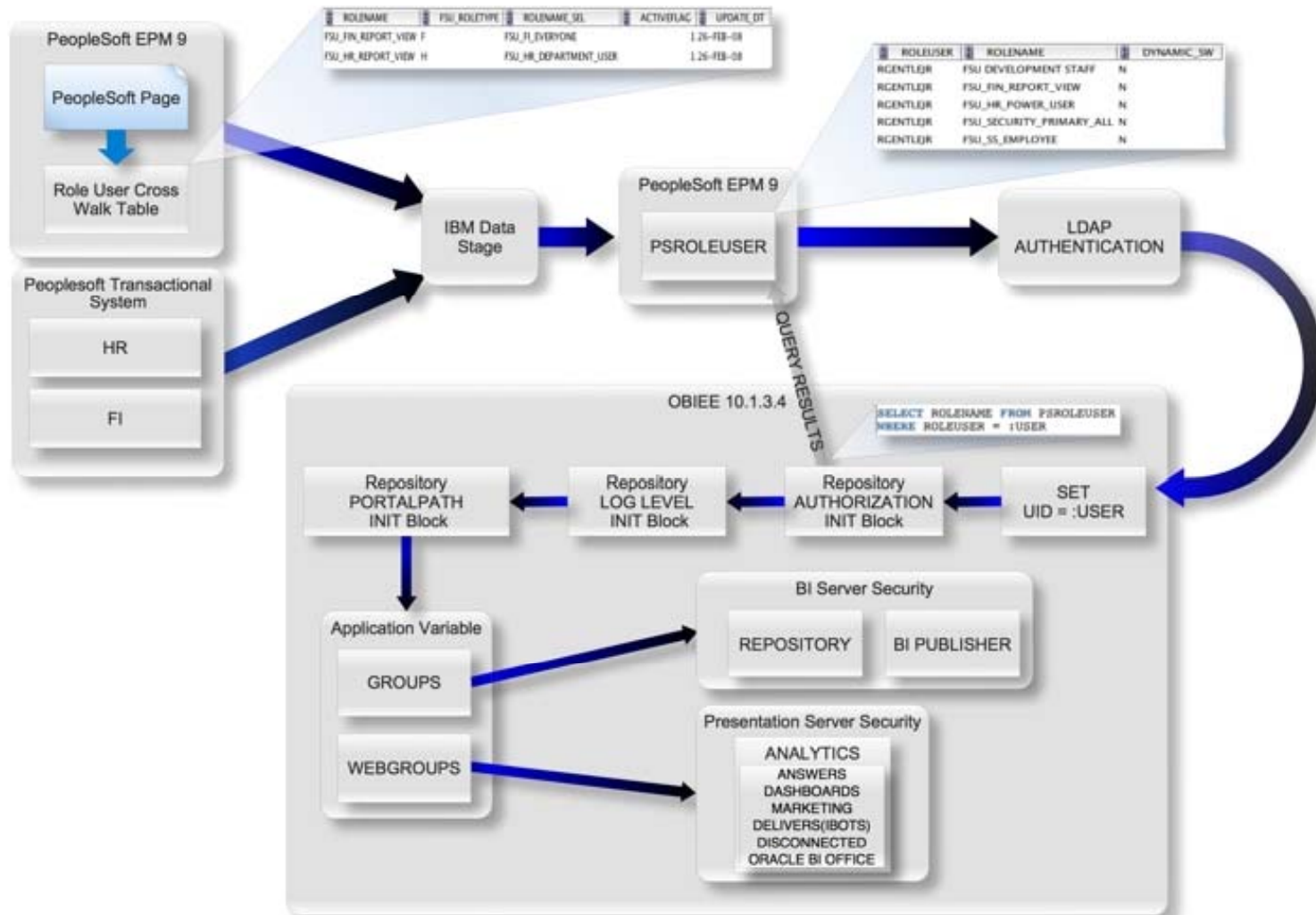
- Technical Direction
 - PeopleTools based page is needed to configure the role mapping.
 - ETL process will map the OLTP roles to the EPM roles and populate the PSROLEUSER table. Security will be rebuilt nightly.
 - OBIEE will enforce security to Dashboards components, Answers subject areas based on initialization block results.



Case 2 – Security Solution

ALLIANCE 09

Security Architecture Design





Case 2 – Security Solution

DB Object Development

Application Designer - FSU_EPM_ROLEMAP - FSU_EPM_ROLE_MAP (Page)

File Edit View Insert Build Debug Tools Layout Go Window Help

FSU_EPM_ROLEMAP

- Components
 - FSU_EPM_ROLE_MAP (GBL)
- Fields
 - FSU_ROLE_FTYPEF
- Menus
 - MAINTAIN_SECURITY
- Pages
 - FSU_EPM_ROLE_MAP
- Records
 - FSU_EPM_ROLE_VW
 - FSU_EPM_ROLEMAP
 - FSU_PSROLEUSER
 - FSU_ROLE_SEL_VW
 - FSU_ROLEDEFN_VW
 - FSU_ROLEMAP_HDR
- SQL
 - FSU_EPM_ROLE_VW
 - FSU_ROLE_SEL_VW
 - FSU_ROLEDEFN_VW

Development Upgrade

FSU_EPM_ROLE_MAP (Page)

Layout Order

FPM Role Name: AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

	Role Type	Role Name	Active	Last Updated	Last
1			<input type="checkbox"/>		
2			<input type="checkbox"/>		
3			<input type="checkbox"/>		
4			<input type="checkbox"/>		

1 Menu definition(s) in project.
1 Components definition(s) in project.
3 SQL definition(s) in project.
3 Portal Registry Structures definition(s) in project.
20 total definition(s) in project.

Build Upgrade Results Validate

Ready SDEV DW NUM



Case 2 – Security Solution

ALLIANCE'09

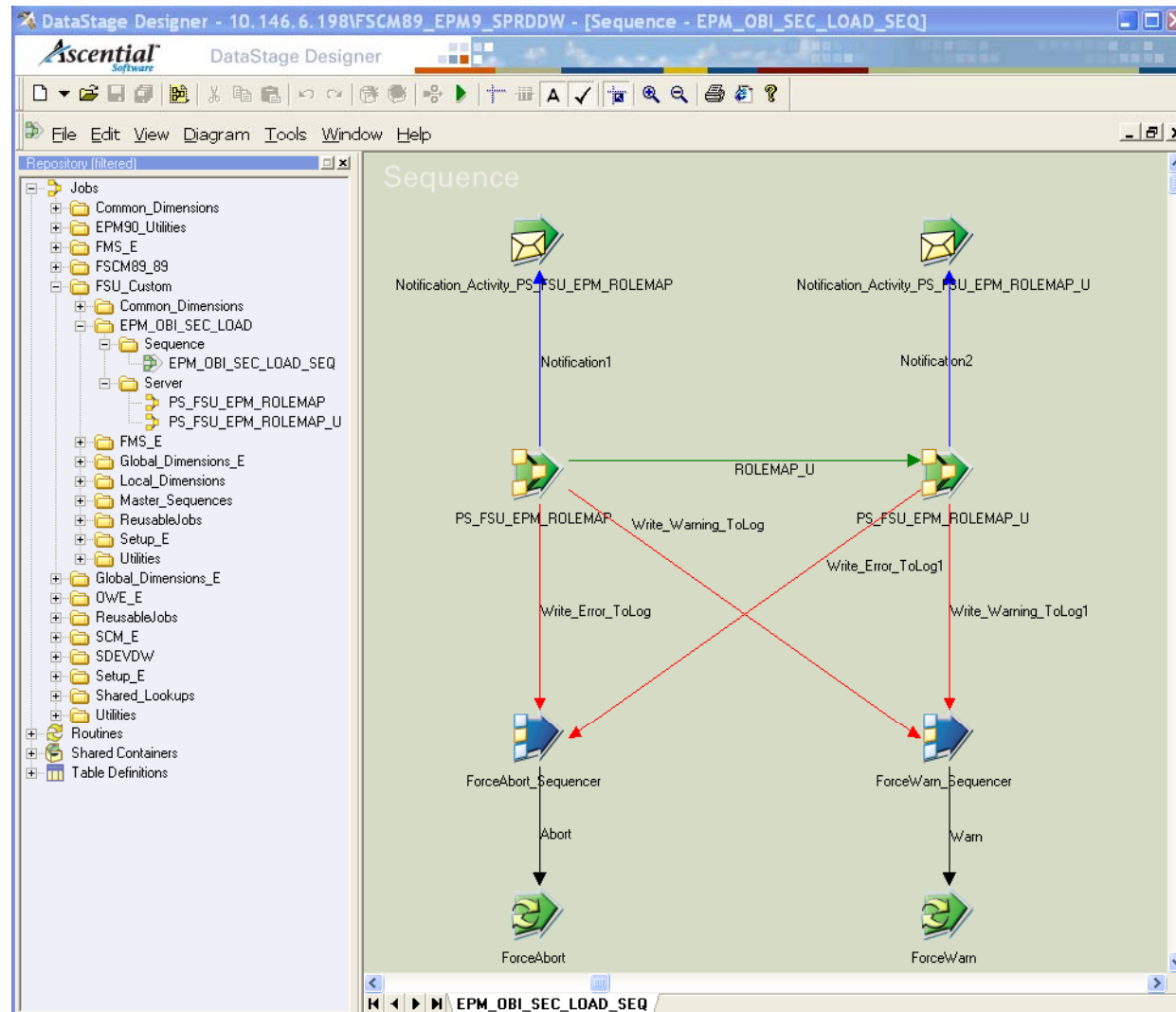
ETL Design

- Location of Custom Processes
 - FSU_Custom\EPM_OBI_SEC_LOAD\
- Use load 1 custom stage table to load:
 - FSU_PSROLEUSER (OWS)
- Use load 1 delivered stage table to load:
 - PSROLEUSER (OWS)
- Rebuild security nightly



Case 2 – Security Solution

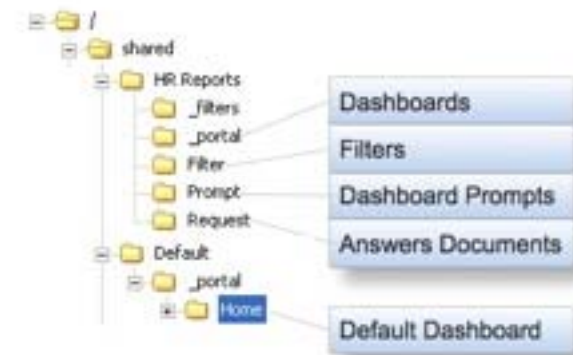
ETL Design





Case 2 – OBIEE Storage Structure

- All Structured Reporting areas have the same folders for document storage
- Dashboards
- Filter
- Prompt
- Request
- Provides Separation of documents based on type regardless of report being developed
- Each Deployed PeopleSoft Functional Area has Parent Folder for Document Storage
- All Shared Document Storage is consistent in Design/Naming/Security/Structure of Objects

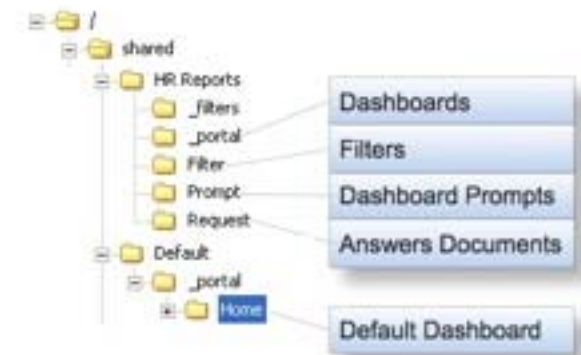




Case 2 – OBIEE Storage Structure

ALLIANCE 09

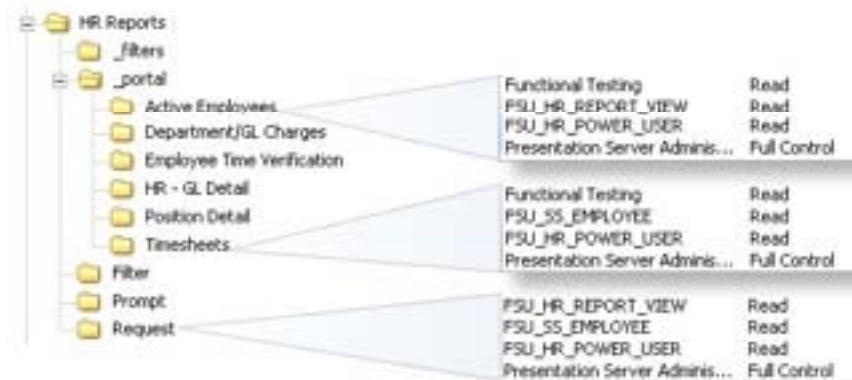
- Default Dashboard is Set via Init Block and Allows for Setting of Default based on:
- Location
- Department
- Referring Application
- Variable known as “PORTALPATH”
- Allows for Announcements about upcoming events such as system outages.





Case 2 – OBIEE Storage Structure

- Security is Set at each Dashboard/Object Level
- Developer Prompt(Allows Developers to turn on/off Logging Level of a dashboard for troubleshooting)
- Dashboard Main/Pages are used for securing who can “See” what dashboards
- Prompt/Request/Filter are all set to “Read Only” for All Groups which have rights within the Deployed PS Functional Area





Case 2 – Security Solution

ALLIANCE 09

OMNI ENTERPRISE PERFORMANCE MANAGEMENT
ONLINE MANAGEMENT OF NETWORKED INFORMATION

Welcome! BMENCHION Account Fri, Mar 20, 09 Home

Menu

- Application Diagnostics
- Tree Manager
- Reporting Tools
- PeopleTools
 - Security
 - User Profiles
 - Permissions & Roles
 - Password Configuration
 - Directory
 - Security Objects
 - Query Security
 - Encryption
 - FSU Custom Security
 - FSU EPM Role Mapping
 - Common Queries
 - Mass Change Operator Security
 - Utilities
 - Workflow
 - Portal
 - Search Engine
 - Personalization
 - Process Scheduler
 - Cube Manager
 - Application Engine
 - Query Access Services
 - Integration Broker
 - REN Server Configuration
 - Setup Manager
 - MultiChannel Framework
 - Archive Data

Fsu Emp Role Map

EPM Role Name: FSU_HR_REPORT_VIEW
FSU_HR_REPORT_VIEW

*Role Type	*Role Name	Active
1 HR	FSU_HR_DEPARTMENT_USER	<input checked="" type="checkbox"/>
2 HR	FSU_PR_DEPARTMENT_USER	<input checked="" type="checkbox"/>
3 HR	FSU_PY_FI_REP_INQUIRY	<input checked="" type="checkbox"/>
4 HR	FSU_QRYTREE_SECURE	<input checked="" type="checkbox"/>
5 HR	FSU_QRYTREE_SECURE_HR_ACCESS	<input checked="" type="checkbox"/>
6 HR	FSU_SS_MANAGER	<input checked="" type="checkbox"/>
7 HR	FSU_UBA	<input checked="" type="checkbox"/>

Save

Return to Search

Previous in List

Next in List

Notify

Refresh

Add

Update/Display



Case 3 – External Reporting

ALLIANCE 09

Scenario

- With the implementation of the OMNI Financial Application in 2004, the University's financial transactions were no longer stored in the State Of Florida's accounting system (FLAIR).
- The State of Florida still requires the University to provide Financial data for State Reporting purposes using the State's coding structure.
- To support DW reporting that would allow the University to review and analyze financial data in the State's coding structure, a customization was made to include CF attributes in the data warehouse.



Case 3 – External Reporting

ALLIANCE 09

Analysis Highlights

- Account Code structure in new system is different from FLAIR.
- Legacy equivalents are stored as attributes to Chartfields.
- Attributed exist for GL Account, Fund Codes, and Departments.
- The information must be available in the MDW Layer to be used for external reporting and internal analysis.



Case 3 – External Reporting

ALLIANCE '09

Analysis Highlights (Cont.)

- Technical Direction
 - 3 Delivered Dimensions will be customized to include the Charfield Attributes.
 - Account Dimension
 - Fund Code Dimension
 - Department Dimension
 - New fields will be added to the existing records.
- Transactional tables that contain the Chartfield Attributes will have to be created in the OWS.
- Appropriate business names will have to be defined and exposed in the OBIEE Metadata.



Case 3 – External Reporting

ALLIANCE 09

DB Object Development

Application Designer - FSU_EPM01 - CF_ATTRIB_VALUE (Record)

File Edit View Insert Build Debug Tools Go Window Help

FSU_EPM01

- Records
 - ASSET
 - CF_ATTRIB_TBL
 - CF_ATTRIB_VALUE
 - DIST_LN
 - DISTRIB_LINE
 - FSU_DEPT_INFO

Develop... Upgrade

CF_ATTRIB_TBL (Record)

Record Fields Record Type

Num	Field Name	Type	Len	Format	Short Name	Long Name
1	SETID	Char	5	Upper	SetID	SetID
2	CHARTFIELD_VALUE	Char	30	Upper	Value	ChartField Value
3	EFFDT	Date	10		Eff Date	Effective Date
4	FIELDNAME	Char	18	Upper	Field Name	Field Name
5	CF_ATTRIBUTE	Char	15	Upper	CF Attribute	CF Attribute
6	CF_ATTRIB_VALUE	Char	20	Upper	CF Attrib Value	CF Attribute Value
7	SRC_SYS_ID	Char	5	Upper	Source ID	Source System Identifica
8	LOAD_OWS_SBR	SRec				

CF_ATTRIB_VALUE (Record)

Record Fields Record Type

Num	Field Name	Type	Len	Format	Short Name	Long Name
1	SETID	Char	5	Upper	SetID	SetID
2	FIELDNAME	Char	18	Upper	Field Name	Field Name
3	CF_ATTRIBUTE	Char	15	Upper	CF Attribute	CF Attribute
4	CF_ATTRIB_VALUE	Char	20	Upper	CF Attrib Value	CF Attribute Value
5	SRC_SYS_ID	Char	5	Upper	Source ID	Source System Identifica
6	DESCR60	Char	60	Mixed	Descript	Description
7	LOAD_OWS_SBR	SRec				

Opening project ...
6 Records definition(s) in project.
6 total definition(s) in project.

Build Upgrade Results Validate

Ready

SDEV DW NUM



Case 3 – External Reporting

ALLIANCE 09

DB Object Development

Application Designer - FSU_DM01 - [D_ACCOUNT (Record)]

File Edit View Insert Build Debug Tools Go Window Help

FSU_DM01

- Fields
- Records
 - D_ACCOUNT
 - D_DEPT**
 - D_EMPL_JOB
 - D_FUND
 - D_PRJ
 - F_BEGIN_BAL
 - FSU_V_EMPLOYMNT
 - FSU_V_FUND
 - H_FSU_FUND
 - R_FSU_FUND
 - V_ACCOUNT
 - V_DEPT
- SQL

Record Fields

Num	Field Name	Type	Len	Format	Short Name	Long Name
13	ACCOUNT_TYPE	Char	1	Upper	Type	Account Type
14	ACCT_TYPE_DESC	Char	30	Upper	Acct type desc	Type Description
15	ACCT_LOD	Char	2	Upper	Level of Detail	Level of Detail
16	CAT_CD1	Char	3	Upper	Category Code1	Category Code 1
17	CAT_CD1_DESC	Char	30	Upper	Cat Code1 Desc	Category Code1 Descrip
18	CAT_CD2	Char	3	Upper	Category Code2	Category Code2
19	CAT_CD2_DESC	Char	30	Upper	Cat Code2 Desc	Category Code2 Descrip
20	EFFDT	Date	10		Eff Date	Effective Date
21	DATE_RANGE_SBR	SRec				
22	SRC_SYS_ID	Char	5	Upper	Source ID	Source System Identifica
23	LOAD_MDW_SBR	SRec				
24	STATISTICS_ACCOUNT	Char	1	Upper	Stat Acct	Statistical Account
25	BUDGETARY_ONLY	Char	1	Upper	Bud. Only	Budgetary Only
26	FSU_AFS_GL	Char	20	Upper	FSU_AFS_GL	FSU AFS GL
27	FSU_AFS_GL_DESC	Char	60	Mixed	AFS GL Desc	FSU AFS GL Desc
28	FSU_APPRO_CAT	Char	20	Upper	FSU Appro Cat	FSU Appro Category
29	FSU_APPRO_CAT_DESC	Char	60	Mixed	Appro Cat Desc	FSU Appro Cat Desc
30	FSU_EXT_CAT	Char	20	Upper	FSU Ext Cat	FSU Ext Category
31	FSU_EXT_CAT_DESC	Char	60	Mixed	Ext Cat Desc	FSU Ext Cat Desc
32	FSU_OBJECT	Char	20	Upper	FSU Object	FSU Object
33	FSU_OBJECT_DESC	Char	60	Mixed	FSU Obj Desc	FSU Object Desc
34	FSU_DIRECT_CHARGE	Char	1	Upper	FSU Direct Chg	FSU Direct Charge

Develop... Upgrade

2 Translate Values definition(s) in project.
4 SQL definition(s) in project.
122 total definition(s) in project.

Build Upgrade Results Validate

Ready

SDEV DW NUM



Case 3 – External Reporting

ALLIANCE'09

ETL Design

- Location of Custom Processes
 - OWS
 - FSU_Custom\FMS_E\OWS\Base\Load_Tables\Sequence
 - MDW
 - FSU_Custom\Global_Dimensions_E\OWS_To_MDW\Base\Load_Tables\Sequence
- Process Additions for the OWS tables
- Customize delivered MDW Global Dimension processes

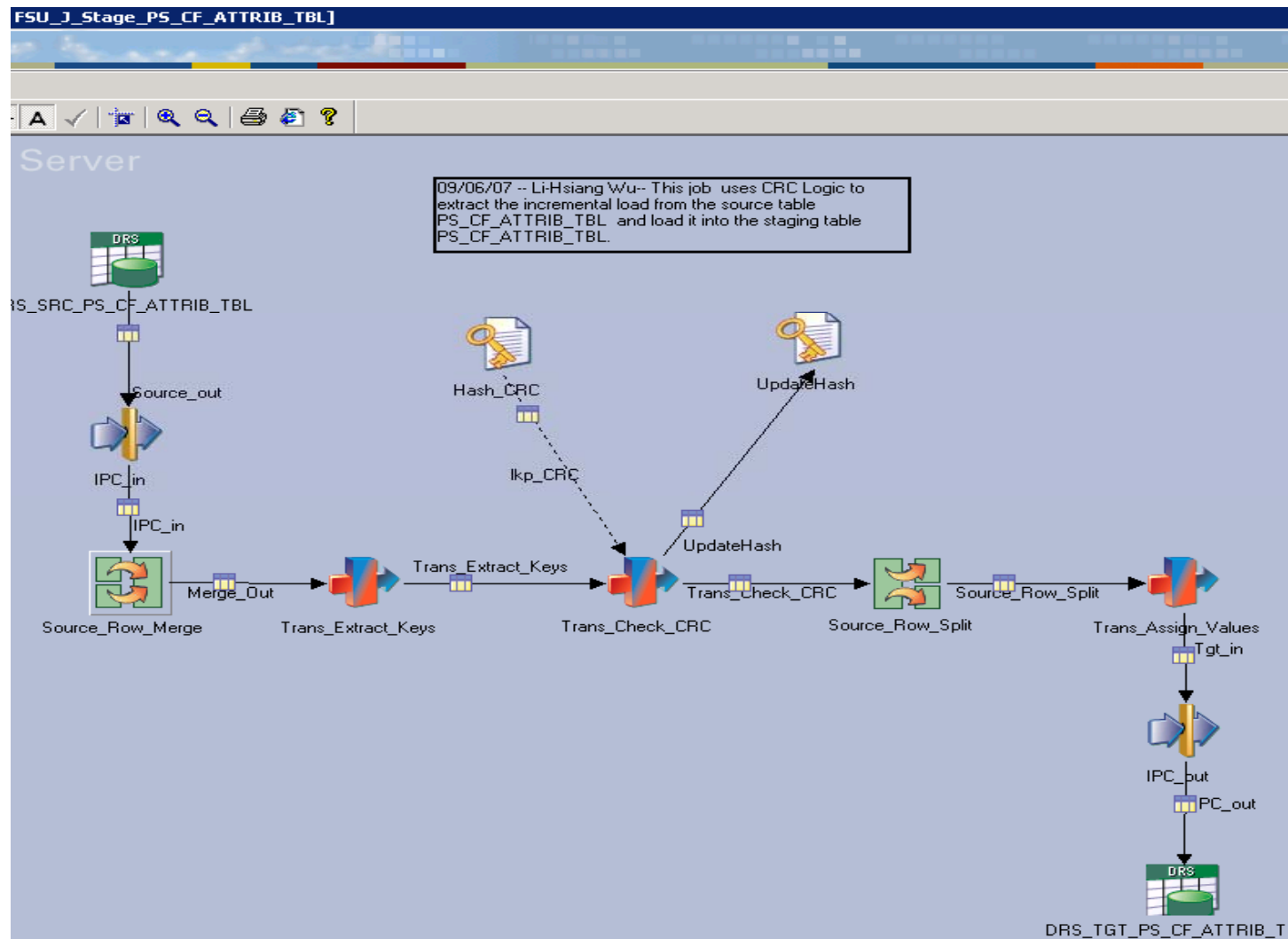




Case 3 – External Reporting

ALLIANCE 09

ETL Development

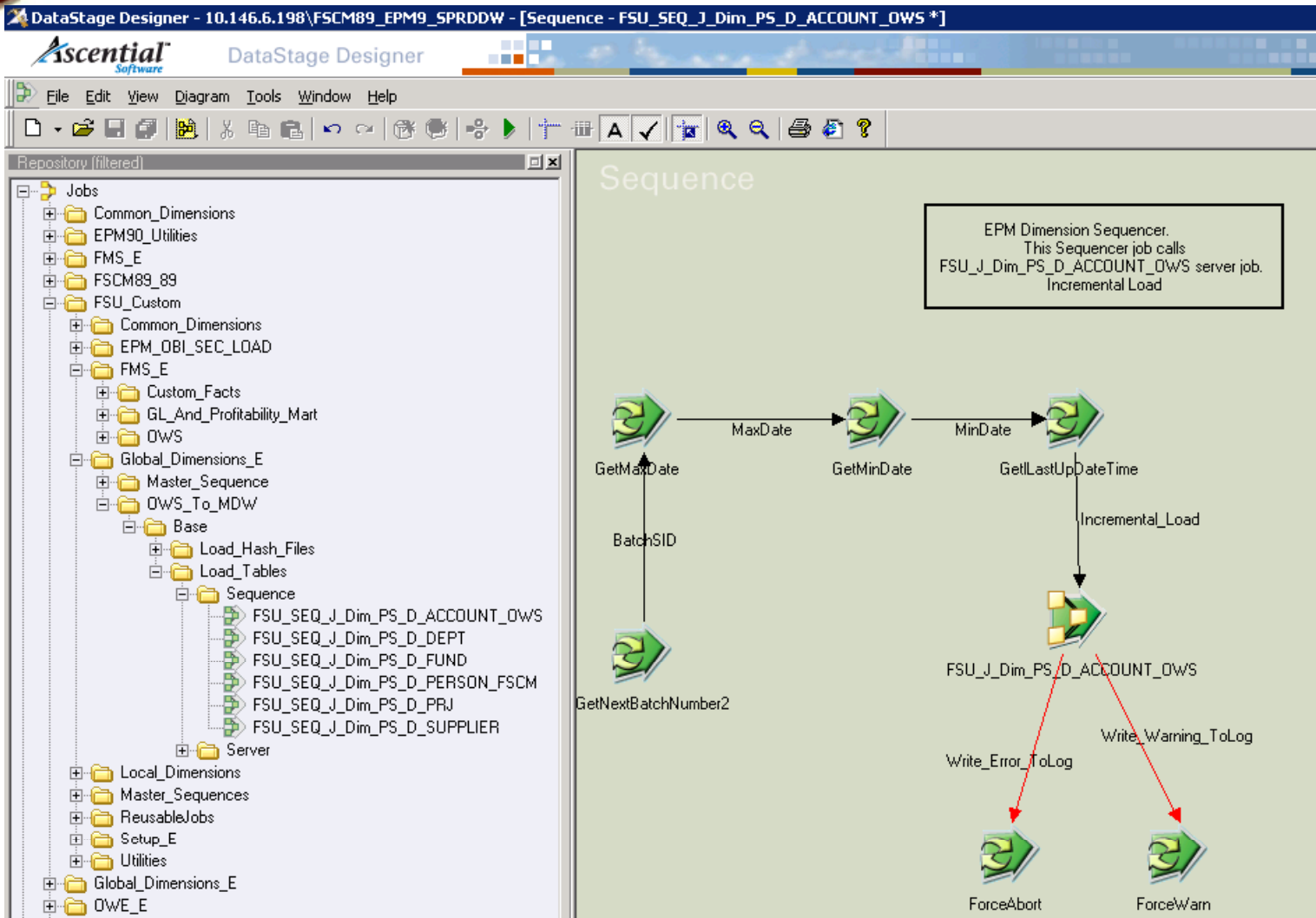


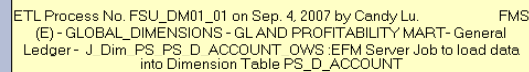


Case 3 – External Reporting

ETL Development

ALLIANCE 09







Case 3 – External Reporting

ETL Development

DRS_PS_CF_ATTRIB_TBL - DRS stage

Stage Output

Output name: PS_CF_ATTRIB_VALUE Columns... View Data...

General Columns Selection SQL

Generated User-defined Before After

```
SELECT A.SETID A.CHARTFIELD_VALUE A.FIELDNAME TO_CHAR(A.EFFDT, 'YYYY-MM-DD HH24:MI:SS') A.CF_ATTRIBUTE A.CF_ATTRIB_VALUE B.DESCR60 FROM
#SOWS_SCHEMA#PS_CF_ATTRIB_TBL A, #SOWS_SCHEMA#PS_CF_ATTRIB_VALUE B WHERE A.FIELDNAME
IN ('ACCOUNT')
AND A.SETID = B.SETID
AND A.FIELDNAME = B.FIELDNAME
AND A.CF_ATTRIBUTE = B.CF_ATTRIBUTE
AND A.CF_ATTRIB_VALUE = B.CF_ATTRIB_VALUE
AND A.EFFDT = (SELECT MAX(A_ED.EFFDT) FROM #SOWS_SCHEMA#PS_CF_ATTRIB_TBL A_ED
WHERE A.SETID = A_ED.SETID
AND A.CHARTFIELD_VALUE = A_ED.CHARTFIELD_VALUE
AND A_ED.EFFDT <= CURRENT_DATE)
ORDER BY A.SETID A.CHARTFIELD_VALUE A.CF_ATTRIBUTE A.CF_ATTRIB_VALUE
```

OK Cancel Help

FSU_J_Dim_PS_D_ACCOUNT_OWS.DRS_PS_CF_ATTRIB_TBL.PS_CF_ATTRIB_VALUE_LOOKUP_in - Data Browser

SETID	CHARTFIELD_VALUE	FIELDNAME	EFFDT	CF_ATTRIBUTE	CF_ATTRIB_VALUE	DESCR60
SHARE	600111	ACCOUNT	1901-01-01 00:00:00	AFS_GL	63102	General Revenue Release
SHARE	600111	ACCOUNT	1901-01-01 00:00:00	APPRO_CAT	001500	Transfers
SHARE	600111	ACCOUNT	1901-01-01 00:00:00	EXT_CAT	001530	Interagency Transfers in
SHARE	600111	ACCOUNT	1901-01-01 00:00:00	OBJECT	004081	Resources Received Univ/BOR
SHARE	600112	ACCOUNT	1901-01-01 00:00:00	AFS_GL	63500	Reversion of Appropriation
SHARE	600112	ACCOUNT	1901-01-01 00:00:00	APPRO_CAT	001500	Transfers
SHARE	600112	ACCOUNT	1901-01-01 00:00:00	EXT_CAT	001530	Interagency Transfers in
SHARE	600112	ACCOUNT	1901-01-01 00:00:00	OBJECT	499055	Reversions
SHARE	600113	ACCOUNT	1901-01-01 00:00:00	AFS_GL	63101	Incidental Release
SHARE	600113	ACCOUNT	1901-01-01 00:00:00	APPRO_CAT	001500	Transfers
SHARE	600113	ACCOUNT	1901-01-01 00:00:00	EXT_CAT	001530	Interagency Transfers in
SHARE	600113	ACCOUNT	1901-01-01 00:00:00	OBJECT	004081	Resources Received Univ/BOR
SHARE	600114	ACCOUNT	1901-01-01 00:00:00	AFS_GL	63500	Reversion of Appropriation
SHARE	600114	ACCOUNT	1901-01-01 00:00:00	APPRO_CAT	001500	Transfers
SHARE	600114	ACCOUNT	1901-01-01 00:00:00	EXT_CAT	001530	Interagency Transfers in

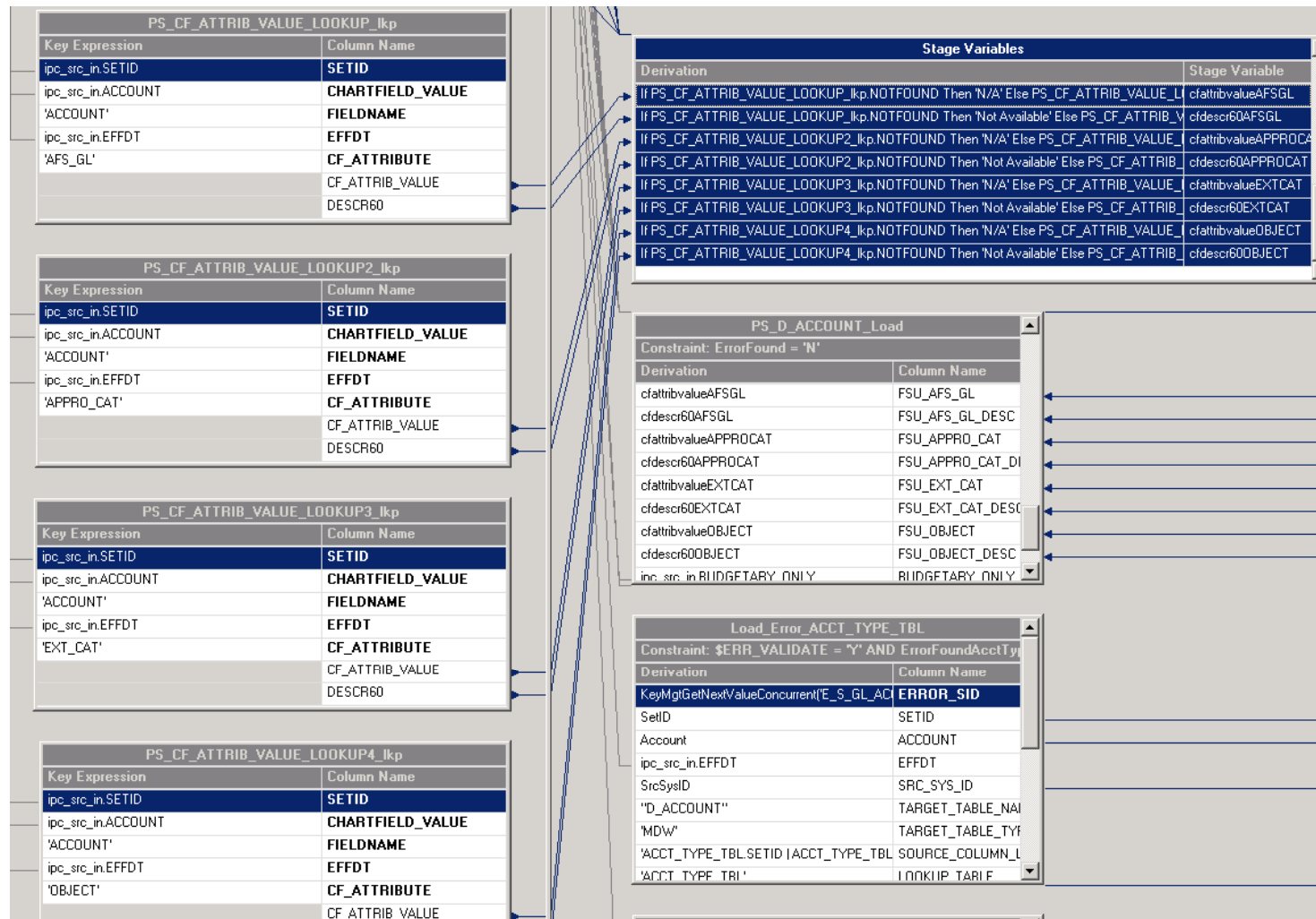
Close Find... Display... Help



Case 3 – External Reporting

ALLIANCE 09

ETL Development





Case 3 – External Reporting

OBIEE Metadata

Oracle BI Administration Tool - EPMMaster

File Edit View Manage Tools Window Help

Presentation

- FMS - RE - Tenant Sales History
- FSU - GL - Available Balances
- FSU - GL - Cash Detail
- FSU - GL - Cash Detail - Answers
- FSU - GL - Encumbrance Detail
- FSU - GL - Encumbrance Detail - Answers
- FSU - GL - Expense Detail
- FSU - GL - Expense Detail - Answers
- FSU - GL - Liabilities Detail
- FSU - GL - Liabilities Detail - Answers
- FSU - GL - Outstanding Encumbrance Detail - Ans
- FSU - GL - Revenue Detail
- FSU - GL - Revenue Detail - Answers
- FSU - SR - Award Subject Area
- FSU - SR - Proposal Subject Area
- FSU Employee Time - Real Time
- FSU FMS - Custom GL - Aggregated Balance
- FSU FMS - Custom GL - Journal Entries
- FSU FMS - Custom GL - Journal Entries - Answ...
- FSU FMS - Custom GL - Period Balances
- FSU FMS - Custom GL - Period Balances - Answ...
- FSU HCM - Custom HCM - HR GL Detail
- FSU HCM - Custom Workforce - Employee Job
- FSU HCM - Custom Workforce - Employee Job - A
- FSU HCM - Custom Workforce - Workforce Move
- FSU HCM - Custom Workforce - Workforce Pr...
- FSU Timesheet - Real Time
- HCM - Compensation - Absence
- HCM - Compensation - Absence Accrual
- HCM - Compensation - Absence Event
- HCM - Compensation - Absence Request
- HCM - Compensation - Benefit Enrollment
- HCM - Compensation - Global Payroll
- HCM - Compensation - Leave Accrual
- HCM - Compensation - Payroll Deduction

Business Model and Mapping

- Enterprise Warehouse
- FSU Employee Time - Real Time
- FSU Timesheet - Real Time
- OBIEE Timings
- OBIEE USAGE TRACKING
- OPERATIONS
- Pay Period
- Pay Period HR GL
- Pay Period No CCR
- Payroll - Real Time RW
- Sponsored Research Proposal
- Sponsored Reserach Award
- Temp
- Usage Tracking

Physical

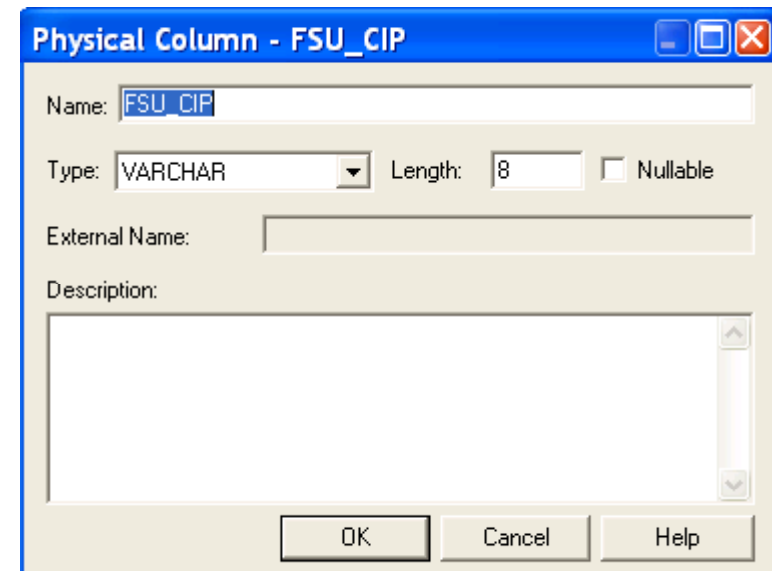
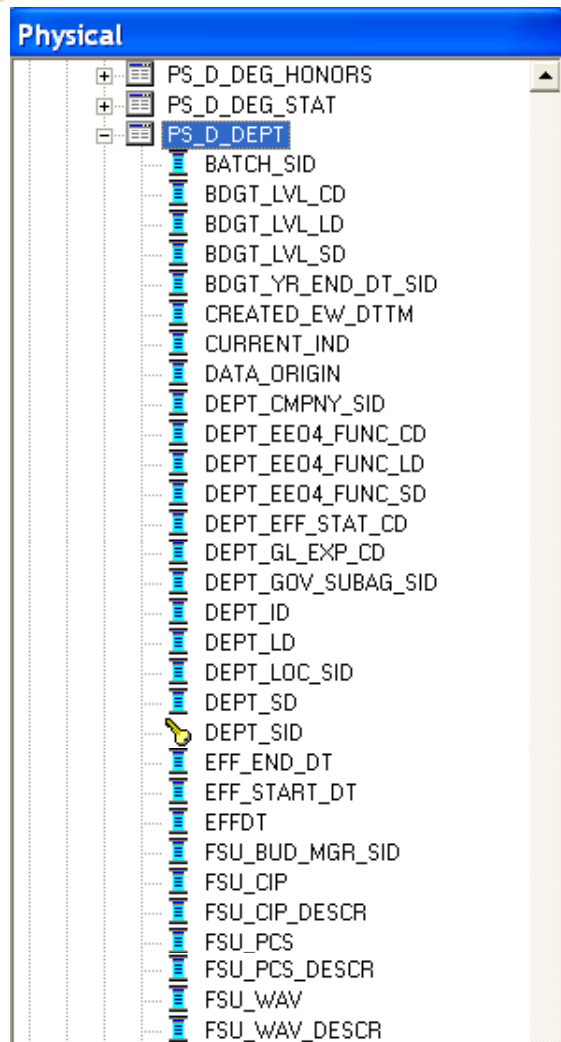
- Authorization
- Cost Center RW
- Data Warehouse
 - SDEVDW
 - CS Dimensions
 - CS Facts
 - FMS - Bridge Tables
 - FMS - Dimensions
 - FMS - Facts
 - FSU Fund Hierarchy
 - FSU HCM
 - FSU SR Mart
 - Global Dimensions
 - HCM - FSU - CUSTOM - WORKFORCE PROF...
 - HCM Dimensions
 - HCM Facts
 - Recon
 - SCM Dimensions
 - SCM Facts
 - Security Tables
 - TEMP
 - spsdw
 - PS_FSU_D_JOB_JR
- OBIE Usage Tracking
- OBIEE Timings
- OBIEE USAGE TRACKING
- OPERATIONS
- SDEVDW
- Sponsored Research Rework
- Sponsored Research
- sprddw
- Thin Test
- Transactional HR



Case 3 – External Reporting

ALLIANCE 09

OBIEE Metadata Physical Layer

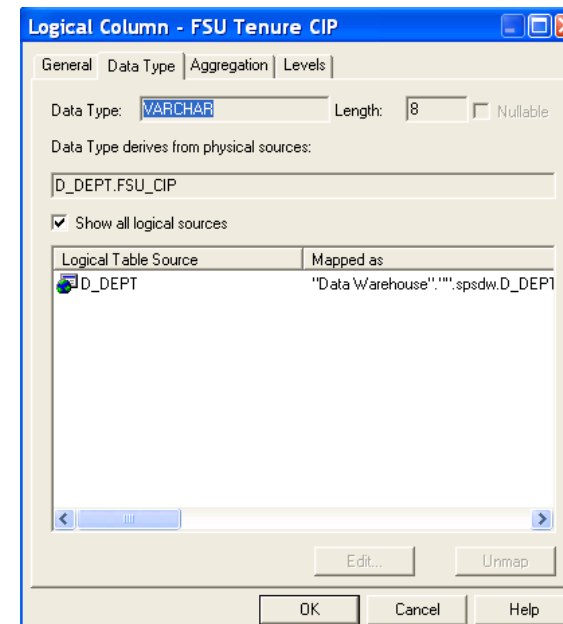
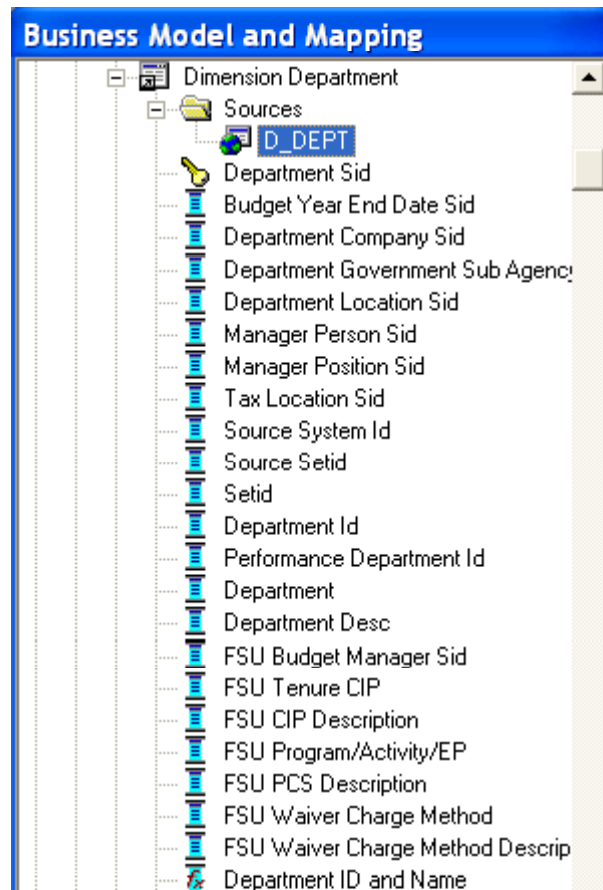




Case 3 – External Reporting

ALLIANCE 09

OBIEE Metadata Logical Layer

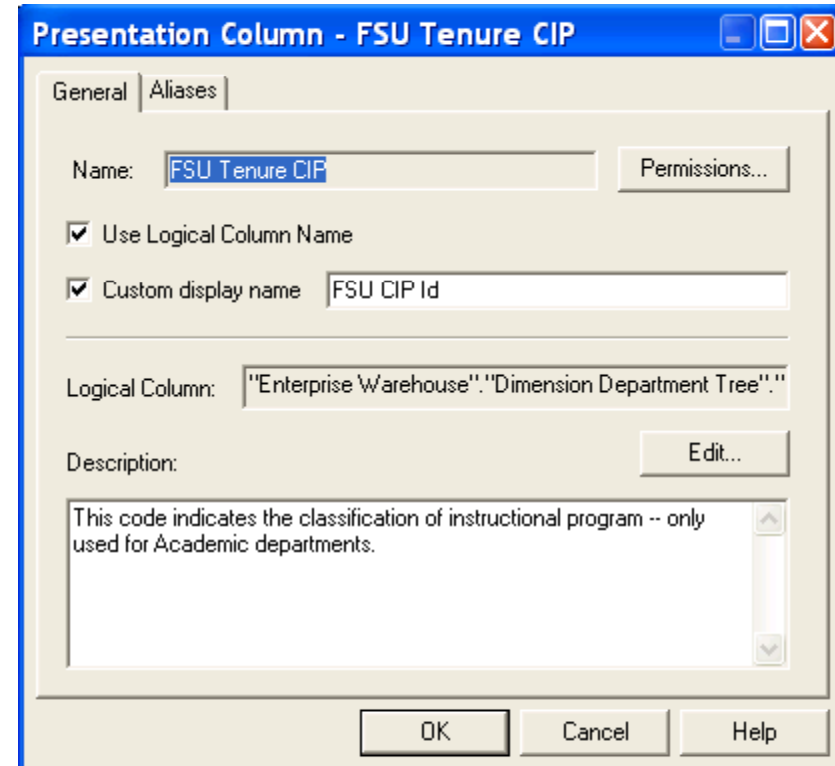
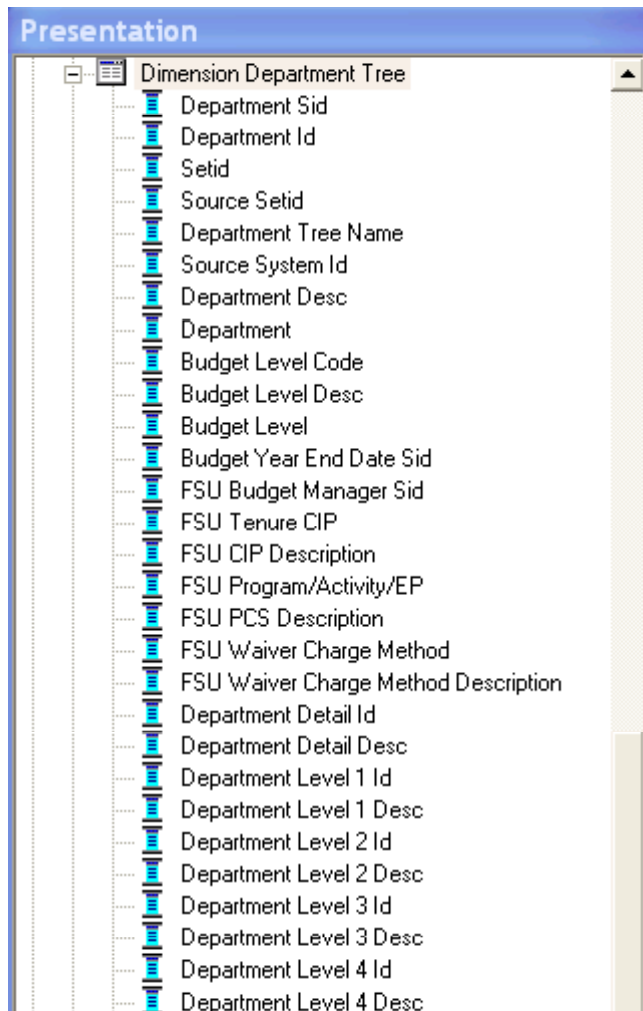




Case 3 – External Reporting

ALLIANCE 09

OBIEE Metadata Presentation Layer





Case 3 – External Reporting

ALLIANCE 09

OBIEE Report

OMNI Answers

ORACLE Answers

Answers - GL Period Balances

Columns

- GL and Ledger KK
- Business Unit
- Department Tree
 - Department Tree Source System Id
 - Source SetId
 - Department Tree Name
 - Department Id
 - Department Short Desc
 - Department Desc
 - Department ID and Descr
 - Department Level 1 Id
 - Department Level 1 Desc
 - Department Level 2 Id
 - Department Level 2 Desc
 - Department Level 3 Id
 - Department Level 3 Desc
 - Department Level 4 Id
 - Department Level 4 Desc
 - Department Level 5 Id
 - Department Level 5 Desc
 - Department Level 6 Id
 - Department Level 6 Desc
 - Department Level 7 Id
 - Department Level 7 Desc
 - Department Level 8 Id
 - Department Level 8 Desc
 - Department Level 9 Id
 - Department Level 9 Desc
 - Department Level 10 Id
 - Department Level 10 Desc
 - FSC CIP Description
 - FSC PCS Description
 - FSC CIP Id
 - FSC PCS Id
 - FSC Waiver Charge Method
 - FSC Waiver Charge Method Description
- Fund Tree
- Project
- Account Tree
- Budget Reference
- Chartfield1
- Chartfield2
- Chartfield3
- Det Period

Filters

- Answers - Central Offices
 - Base - Financial GL Period Balances
 - Dimension --- Dept Fund Acct Reporting
 - Dimension --- FSCM Source System Ids

Refresh Display

Reload Server Metadata

FSC Waiver Charge Method	FSC Waiver Charge Method Description	FSC CIP Id	FSC CIP Description	FSC PCS Id	FSC PCS Description	Department Id	GL Net Amount
1	Direct Charge - Manipulation & Out-of-State Waiver	130000	Education	52	CAMPUS EVENTS/ORGANIZATION	131016	14327.26
						131017	7826.19
						131019	18000.37
				52 Total			40153.82
						131001	63039.72
						131002	0.00
						131003	15880.93
						131004	97343.38
						131005	112086.96
						131006	71473.35
						131007	106864.27
						131008	44913.99
						131009	274.53
						131010	94386.90
						131011	172427.55
						131012	477.70
						131013	22.50
						131014	564.07
						131020	2036.53
						132000	0.00
				73 Total			781792.38
				76	SCHOOLS FOR CHILDREN	131015	51407.74
				76 Total			51407.74
							873353.94
1 Total							873353.94
		040301	Urban & Regional Planning	11	GENERAL ACADEMIC INSTRUCTION	167000	170517.17
				11 Total			170517.17
		040301 Total					170517.17
		050000	Area & Ethnic Studies	46	ACADEMIC ADMINISTRATION	094000	3947.52
				46 Total			3947.52
		050000 Total					3947.52
2	Charge to School Default - both Matric & Out-of-State						
		050102	American Studies (USA)	11	GENERAL ACADEMIC INSTRUCTION	093000	0.00
				11 Total			5858.87
						230003	5858.87
				41	LIBRARIES	066000	1455107.38
				41 Total			1455107.38



Case 3 – External Reporting

ALLIANCE'09

OBIEE Report

Available Balance

Welcome, Menchion, Byron!

Alerts! - Dashboards - Answers - More Products - Settings - Log Out



FLORIDA STATE UNIVERSITY
Available Balance Area Level Data

3/19/2009 10:25:41 PM

Group	Division	School	Area	Fund Code	Fund Desc		Budget Amount	Encumbrance Amount	KK Expense Amount	Available Balance	% Avail Bal
University	Academic Affairs	Strozier Library	Strozier Library	110	E&G General Revenue	Expense	679,413.00	76,782.56	415,346.28	187,284.16	27.57%
						Library Resources	5,583,865.00	0.00	3,810,422.71	1,773,442.29	31.76%
						OCO	115,000.00	5,444.66	72,642.03	36,913.31	32.10%
						OPS	475,336.00	130,083.58	331,703.03	13,549.39	2.85%
						Salary	6,565,220.00	1,950,535.57	4,252,620.12	362,064.31	5.51%
				110 Total			13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%
		Strozier Library Total				13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%	
		Strozier Library Total					13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%
	Academic Affairs Total					13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%	
University Total						13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%	

Department Tree Name is equal to DEPT_LEVELS
 and Department ID and Name is equal to 066000 - Strozier Library
 and Level 2 Desc is equal to Expense Accounts
 and
 KK Expense Amount is not equal to / is not in 0
 or Encumbrance Amount is not equal to / is not in 0
 or Budget Amount is not equal to / is not in 0
 and Accounting Period is less than or equal to 9
 and Fiscal Year is equal to 2009
 and Av Bal Fund Grouping is equal to E & G - FSU - CURRENT YEAR



Case 3 – External Reporting

ALLIANCE'09

OBIEE Report

Available Balance

Welcome, Menchion, Byron! Alerts! - Dashboards - Answers - More Products ▾



FLORIDA STATE UNIVERSITY
Available Balance OMNI Fund Level Data

3/19/2009 10:27:48 PM

Group	Budget Entity	State Fund	Fund Code	Fund Desc		Budget Amount	Encumbrance Amount	KK Expense Amount	Available Balance	% Avail Bal
University	48900100	000210	110	E&G General Revenue	Expense	679,413.00	76,782.56	415,346.28	187,284.16	27.57%
					Library Resources	5,583,865.00	0.00	3,810,422.71	1,773,442.29	31.76%
					OCO	115,000.00	5,444.66	72,642.03	36,913.31	32.10%
					OPS	475,336.00	130,083.58	331,703.03	13,549.39	2.85%
					Salary	6,565,220.00	1,950,535.57	4,252,620.12	362,064.31	5.51%
			110 Total		13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%	
	000210 Total		13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%			
	48900100 Total			13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%		
University Total					13,418,834.00	2,162,846.37	8,882,734.17	2,373,253.46	17.69%	

Accounting Period is less than or equal to 9
 and Fiscal Year is equal to 2009
 and Department Tree Name is equal to DEPT_LEVELS
 and Department ID and Name is equal to 066000 - Strozier Library
 and Level 2 Desc is equal to Expense Accounts
 and
 KK Expense Amount is not equal to / is not in 0
 or Encumbrance Amount is not equal to / is not in 0
 or Budget Amount is not equal to / is not in 0
 and Av Bal Fund Grouping is equal to E & G - FSU - CURRENT YEAR



Lessons Learned

ALLIANCE '09

1. Keep scope small and manageable.
2. Provide conservative estimates to compensate for leading edge technology.
3. Define the customization strategy & development standards early in the project.
4. Engage “power users” and business analysts throughout the BI Lifecycle.
5. Establish trust in the warehouse early and NEVER underestimate the importance of DI/DQ.
6. Focus on data reconciliation early and consistently.
7. Follow proven PeopleSoft and Warehousing development methodologies.
8. Leverage available database technology options even if they are not supported by PeopleTools.
9. Always look for ways to improve your processes.



Questions and Comments?

ALLIANCE'09

A large, faded background image of three torches standing on a banner that reads "WIRELESS VOICES MOVES".

Thank You!