



Commentary Tool for Hyperion BiPlus

Ranzal Lunch-and-Learn
Friday, April 4th 2008



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Commentary Tool – Agenda

- Design Team
- What is the Commentary Tool?
- Commentary Tool Features
- Commentary Tool Components and Architecture
- Demonstration
- Q&A





Commentary Tool - Design Team

- Mike Killeen – Design Lead
- Steve Litt – Business Development Lead
- Tom Eastlake – OTLP and Star Schema Design
- RJ Linehan – EIS/Essbase/Web Analysis
- Michael Raquet - Web Application
- David Adami – Web Analysis/Security





What is the Commentary Tool?

The Commentary Tool is a custom solution integrated with Hyperion BiPlus that allows users to enter supporting detail/remarks that explain numerical results displayed in a Web Analysis document.



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Commentary Tool In Action

Business Unit KPIs



As of: Sunday, March 23rd 2008

Amts in \$000s

	Actual	Bud	Prior Year	vs Bud%	vs PrYr%	
Net Trade Sales	N/A	N/A	N/A	N/A	N/A	<p>CUSTOMER_TURNOVER Dbl-Clk To Edit</p> <p>Input by: admin_user on Mar 26 2008 9:39:02:93 EST This is a test comment that explains reasons for Customer Turnover, This is my new comment that is not to be read by anyone</p> <hr/> <p>GENERAL_COMMENTS Dbl-Clk to Edit</p> <p>Input by: admin_user on Mar 24 2008 11:45:23:89 EST This is a test comment that captures a user's General Comments</p> <hr/> <p>KEY_OBJECTIVES Dbl-Clk to Edit</p> <p>Input by: testuser on Mar 26 2008 9:51:31:54 EST 2008 Key Objectives for SAC</p> <ol style="list-style-type: none"> 1. Reduce customer turnover 2. Improve direct margin by 10% 3. Reduce employee turnover
Manufacturing Variance	N/A	N/A	N/A	N/A	N/A	
Direct Margin	N/A	N/A	N/A	N/A	N/A	
Direct Margin %	N/A	N/A	N/A	N/A	N/A	
Indirect Expense	N/A	N/A	N/A	N/A	N/A	
Gross Profit	N/A	N/A	N/A	N/A	N/A	
Gross Profit %	N/A	N/A	N/A	N/A	N/A	
Business Unit Expenses	N/A	N/A	N/A	N/A	N/A	
BU Op Inc before Alloc	N/A	N/A	N/A	N/A	N/A	
BU Op Inc after Alloc	N/A	N/A	N/A	N/A	N/A	
Oper Income %	N/A	N/A	N/A	N/A	N/A	
DSD	N/A	N/A	N/A	N/A	N/A	
On-Time&Compl Deliv %	N/A	N/A	N/A	N/A	N/A	
Headcount (FTE)	N/A	N/A	N/A	N/A	N/A	
Customer Satisfaction	N/A	N/A	N/A	N/A	N/A	
Customer Quality %	N/A	N/A	N/A	N/A	N/A	
EmployeeTurnover%	N/A	N/A	N/A	N/A	N/A	

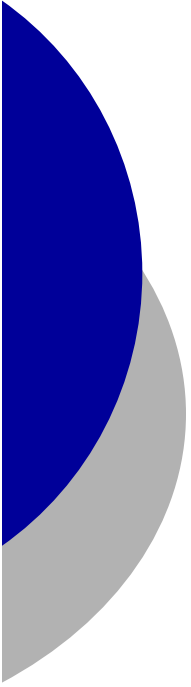




Commentary Tool - Features

- Links commentary to members from select dimensions in Essbase
- Tracks user who created/updated the commentary
- Stores the date the commentary was created and modified
- Tracks the commentary source (Web Analysis document) and type (Key Objectives, General Comments, etc.)
- Security-enabled
- Designed for rapid deployment



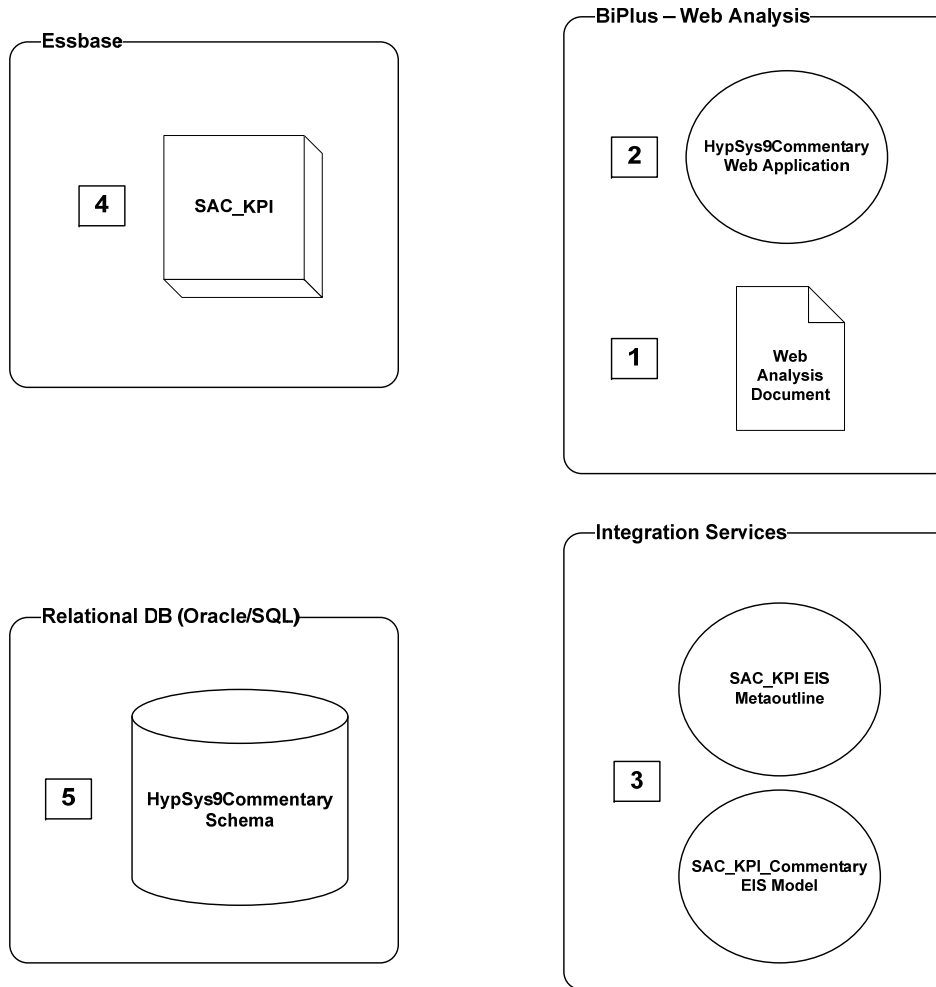


Commentary Tool – Component Architecture

1. Web Analysis
 - a. Delivers Commentary Tool to user
2. Web Application
 - a. Tool used to create and update commentary
3. Essbase Integration Services
 - a. Drill-through URL passes parameters to web application
4. Essbase
 - a. Stores numerical data that comments are associated to
 - b. Provides members passed to URL
 - c. Provides user id stored with comment in OTLP tables
5. Relational Database
 - a. Stores commentary
 - b. Stores dimensions that make up star schema



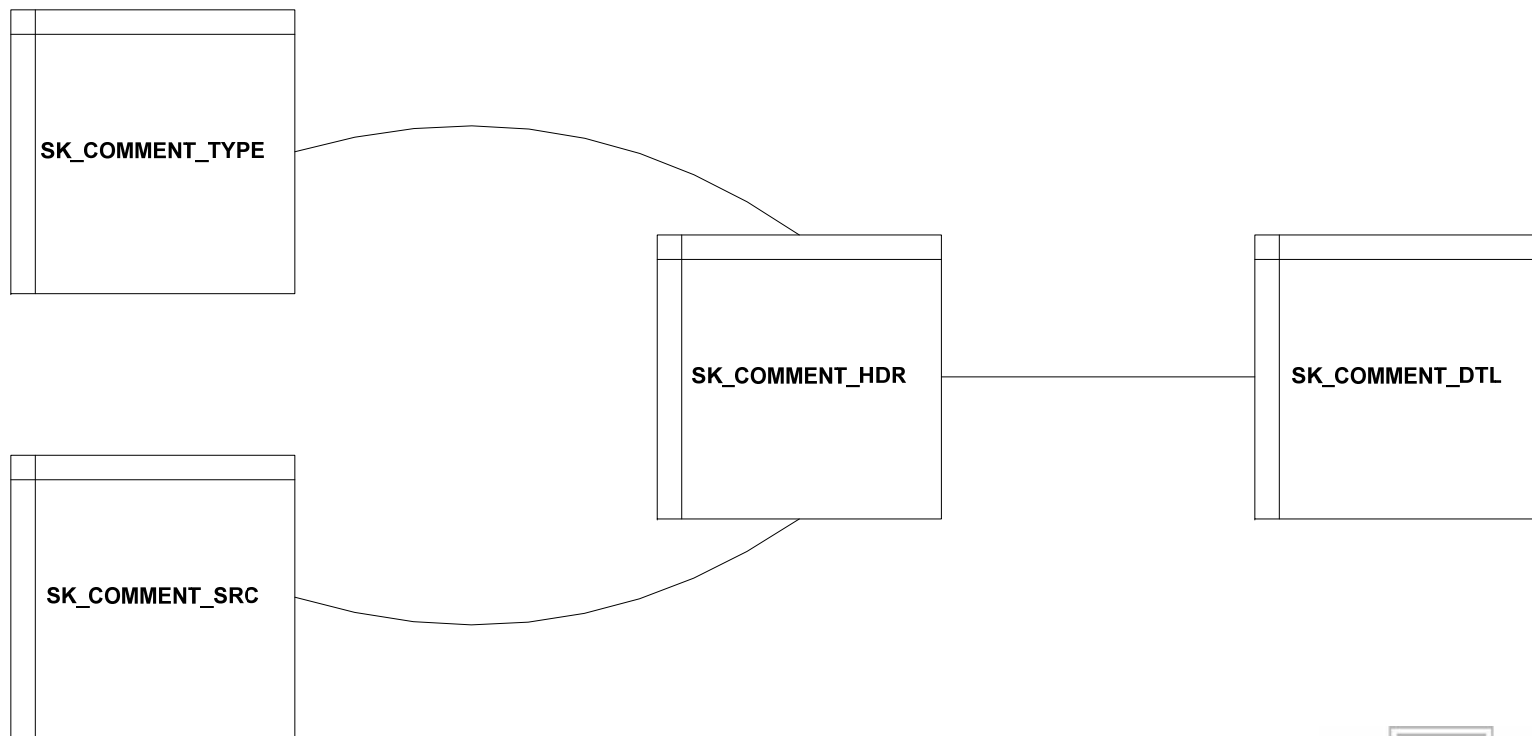
Commentary Tool – Component Architecture



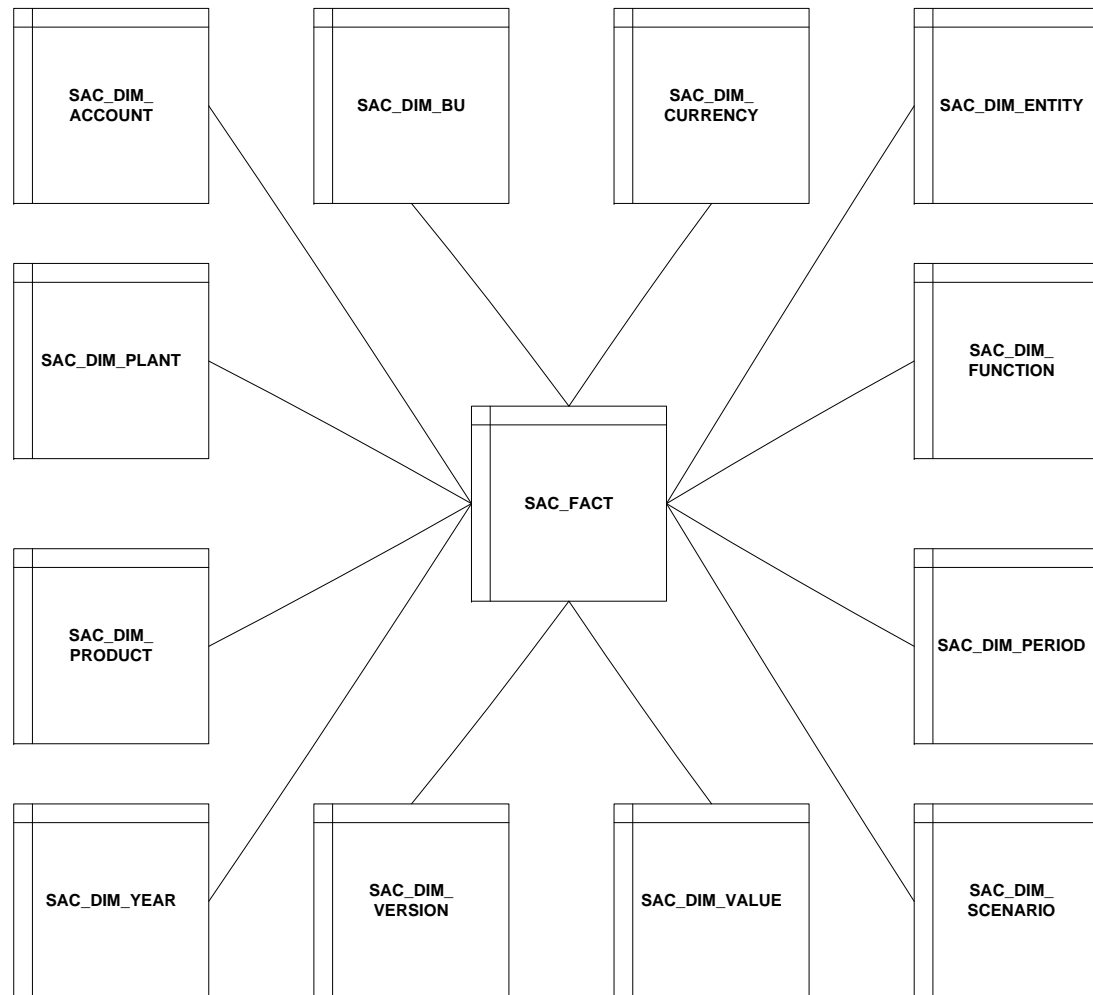
Client

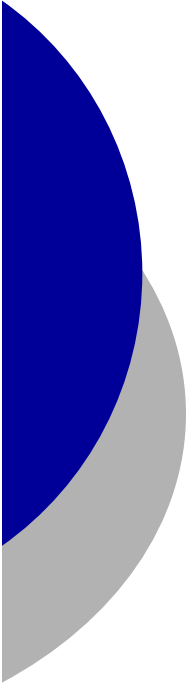


Commentary Tool – SK_COMMENT OLTP Tables



Commentary Tool – SAC Star Schema





Commentary Tool – Web Application

- Technologies Employed: Java, JSP, Hibernate, and Spring
- Multiple Web Application Support
 - Tomcat
 - WebSphere
 - WebLogic (not yet tested)
- Multiple Database Support
 - Oracle
 - MS SQL Server
 - MySQL
 - DB2 (not yet tested)
- Portable design
 - Easily customizable to fit client requirements
 - Simple configuration through XML and properties files
 - Seamless deployment across environments



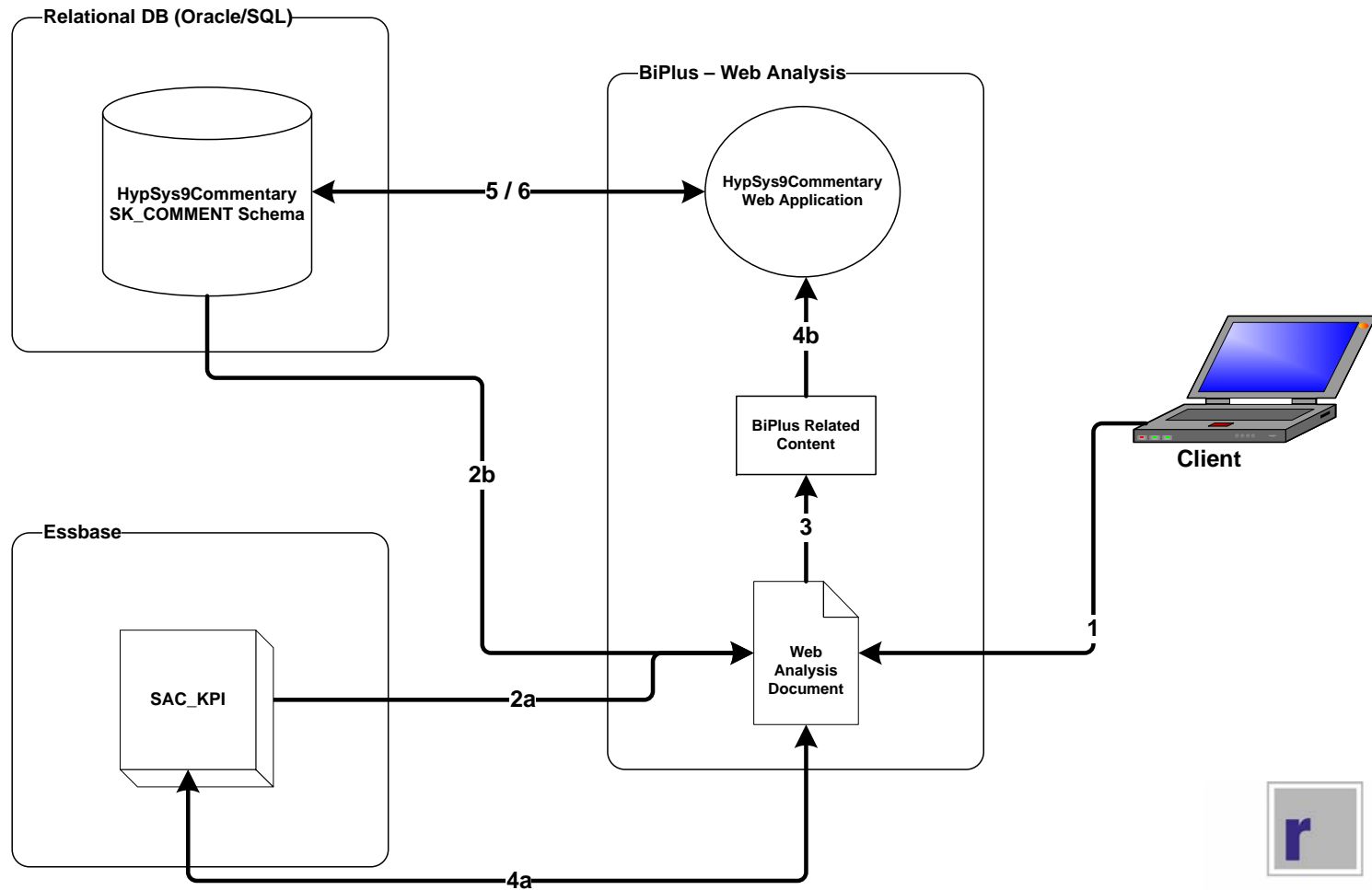


Commentary Tool – Process Flow

1. Client request
2. Web Analysis document
 - a. Retrieve data from Essbase
 - b. Retrieve commentary from OTLP tables
3. Launch Hyperion BiPlus Related Content
4. Launch web application
 1. Drill-through URL
 2. Pass parameters to web application via URL
5. Retrieve commentary from OTLP tables
6. Write commentary to OTLP tables



Commentary Tool – Process Flow



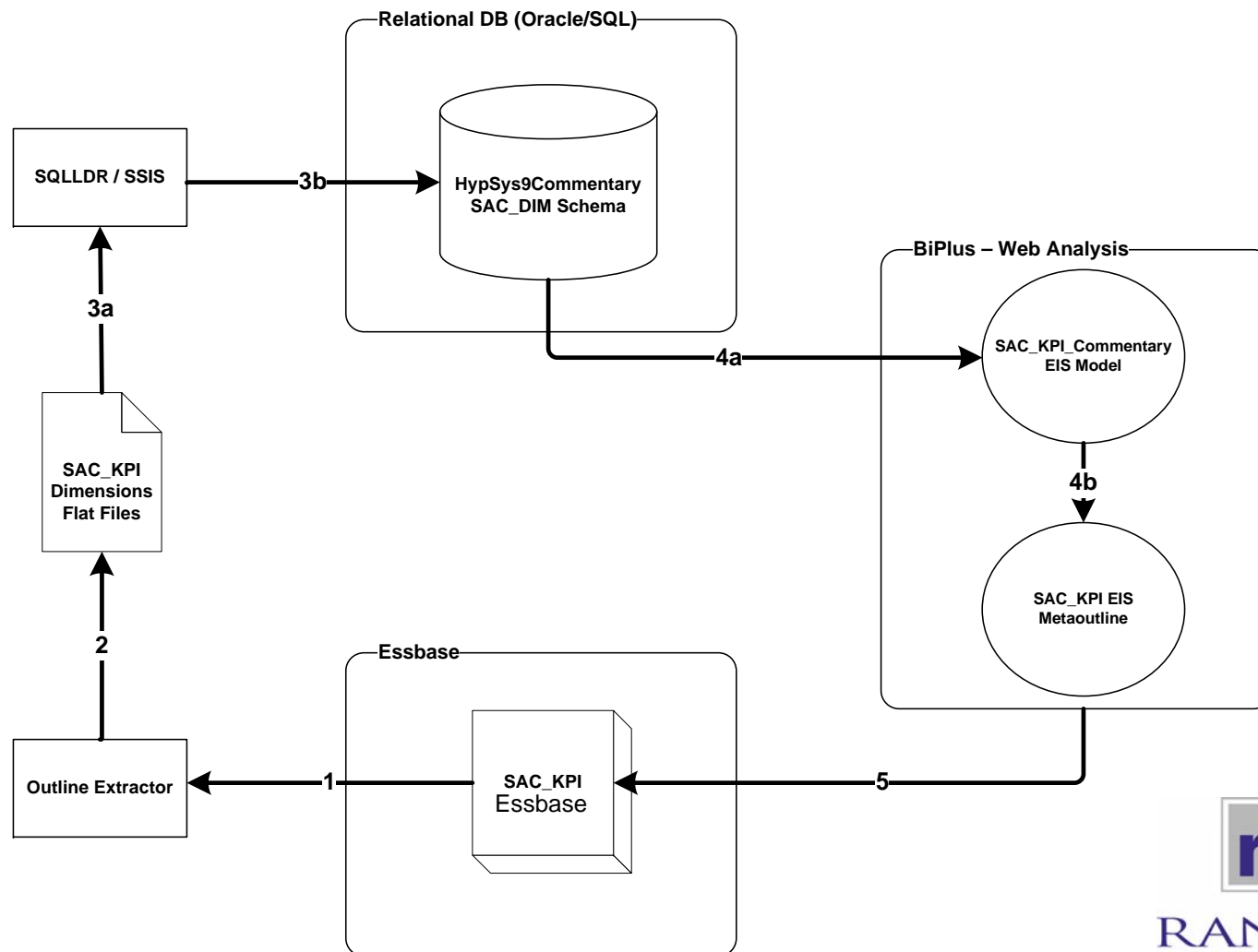


Commentary Tool – Drill-Through Report (URL) Synchronization

1. Dimension extract from Essbase
 - a. Ranzal Outline Extractor
2. Each dimension stored in flat file
 - a. Parent/Child extract
3. Load to relational tables
 - a. Oracle - SQLLDR
 - b. MS SQL Server- SSIS
4. Essbase Integration Services
 - a. Model
 - b. Metaoutline
5. Synchronize drill-through report
 - a. Drill-through report is loaded to Essbase outline



Commentary Tool – Drill-Through Report (URL) Synchronization





Commentary Tool – Estimated Effort

1. Design – Principal and/or Project Lead
 - 2 Days
2. Essbase Development – Senior Consultant
 - 4 days (build, test, and cutover)
3. RDBMS Development – Senior Consultant
 - 5 days (build, test, and cutover)
4. EIS Development – Senior Consultant
 - 5 days (build, test, and cutover)
5. Web Application Development – Senior Consultant
 - 3 days (build, test, and cutover)
6. Web Analysis Development – Senior Consultant
 - 5 days (build, test, and cutover)
7. Project Duration – 2-3 weeks





Commentary Tool for Hyperion BiPlus

Demonstration



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BU2000

Asia

2007

Jan

Entity

cell 0,1 = Asia - Gen2

Year

cell 1,1 = FY07 - Level0

BU

cell 2,1 = BU2000 - Gen2

Period

cell 3,1 = Per_01 - Level0

Plant

cell 4,1 = Plant_Tot - Gen2

Function

cell 5,1 = MG - Gen2

Scenario

cell 6,1 = Act - Level0

This is a list of the values that will be passed to the SQL code. We use dynamic text labels to capture these values from the grid below

This grid displays
Essbase Data

	Jan
Asia	n/a

	Asia
	FY07
	BU2000
	Per_01
	Plant_Tot
	MG
	Act
Account	n/a

This is the grid that passes the member names to the SQL statement to retrieve the commentary from Oracle

	Total_Process_Yield
1	Yield:01 crosied: FEB 20 2008 02:1...
2	I'm not David Crossier
3	
4	sdg

	BU - Cust Turnover - Length - Width - Height
admin_user	n/a
boissob	n/a

This is the grid that is linked to the drill-through report that launches the commentary wed up via url passed from AIS

This is the SQL grid that recieves the member values from the dynamic text labels to pass via SQL. This grid connects to the hypsys9commentary_sc schema and retrieves the commentaries from the SK_comment_dt table

```
select B || ' ' || NVL(h.user_id, ' ') || ' ' || to_char(H.DATE_MODIFIED, 'MON DD YYYY HH:MI AM') || ' EST' as "Total_Process_Yield" from ( select 2 as A, ' ' || 'Yield:' || substr('Per_01',5,2) as B FROM DUAL ) D left join( select SK_COMMENT_TYPE_ID, user_id, date_modified, date_Created from SK_COMMENT_HDR H WHERE 1=1 AND h.sk_COMMENT_SRC_ID = 1 AND H.sk_COMMENT_TYPE_ID = 1 AND H.SCENARIO_CD = 'Act' AND H.YEAR_CD = 'FY07' AND H.PERIOD_CD = 'Per_01' AND H.BU_CD = 'BU2000' AND H.ENTITY_CD = 'Asia' AND H.FUNCTION_CD = 'MG' AND H.PLANT_CD = 'Plant_Tot') h ON D.A = H.SK_COMMENT_TYPE_ID using all SELECT H.COMMENT_LINE_TEXT as YIELD_COMMENTS FROM SK_COMMENTARY VWLH WHERE 1=1 AND
```



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Thank you for attending...



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