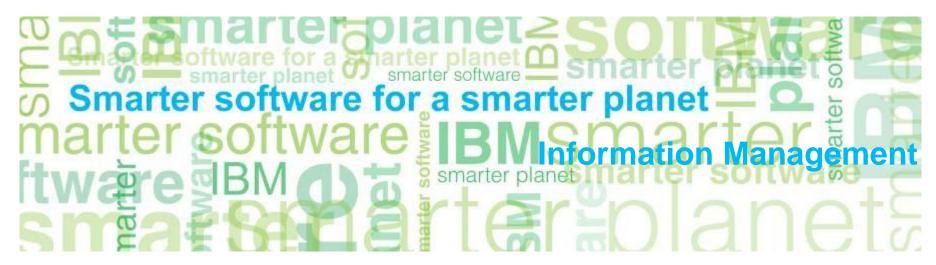


IMS and Cognos

An Optimal Solution for Operational Business Analytics

Deepak Kohli, IBM Mike Biere, IBM



Customers are telling us today ...

- Their current data warehouse and analytics strategy does not support real-time, operational access
- The existing data warehouse refresh cycle is too long for certain users and the information held therein is not detailed enough for operational use
- They have a significant investment in IMS and would like to integrate it within their overall data access infrastructure, not simply extract the IMS data to load elsewhere



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All departments, all users, in all roles across the organization need access to business insights





















What should we do next?



Real-time or historical; operational or strategic

Guided or self-service access and exploration...

Foresight using Statistical, and Predictive Analytics...

Common Business Model







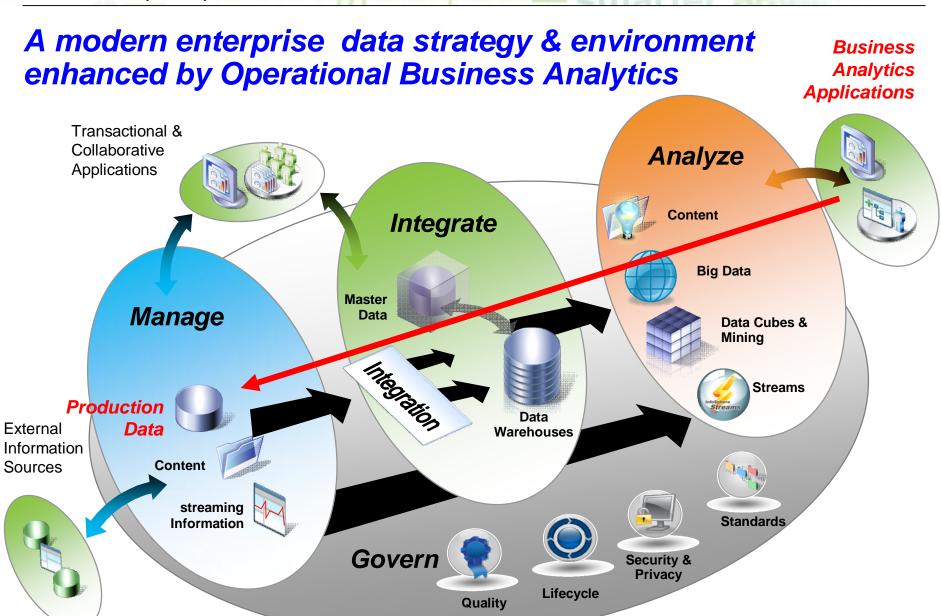


OLAP Sources



Modern and Legacy Sources



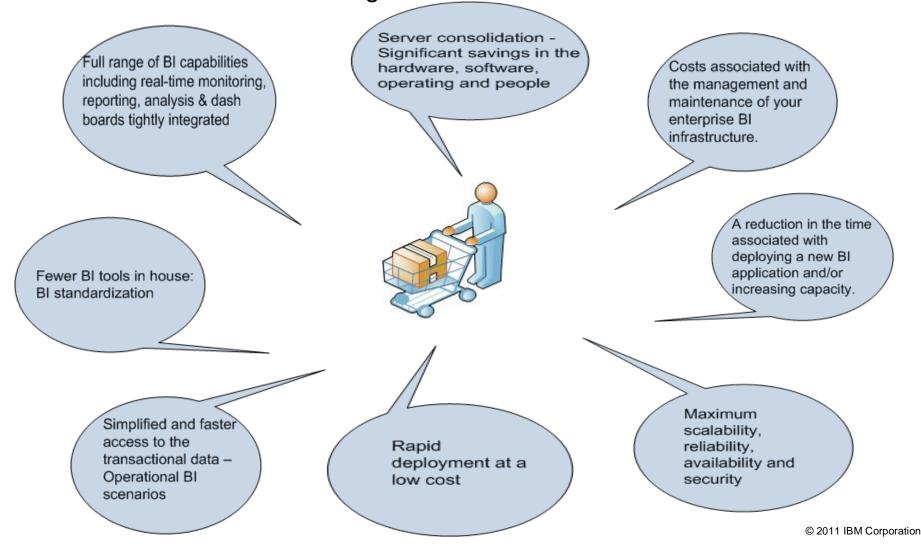


Information Impact Smart Business Analytics on System z The Three Levels of Business Intelligence Strategic BI Business focus Achieve long-Tactical BI term business goals Manage tactical Primary users Operational BI initiatives to achieve strategic Executives & Manage and optimize business goals daily business analysts Executives, Timeoperations analysts frame & LOB managers Analysts, LOB Months managers to years and users, and Days to weeks operational processes Data to months Historical data Intra-day Historical data Real-time, lowlatency & historical data Claudia Imhoff

Using Cognos for Enhanced Reporting and Operational BA

Simplifying the management and maintenance of your enterprise BA infrastructure.

Customers want the following from their BI and DW infrastructure:



Reporting & OLAP



Enterprise Reporting

- Supports multiple report types: Production, Managed, Ad-hoc, Financial, etc
- · Operates from a single metadata layer
- Can be personalized and targeted
- Can be distributed via email, portal, MS-Office, search application and mobile device
- Can assist in the management and optimization of daily business operations
- · Capable of reporting on real-time data
- Presents complex data in a business way so it is easy to understand

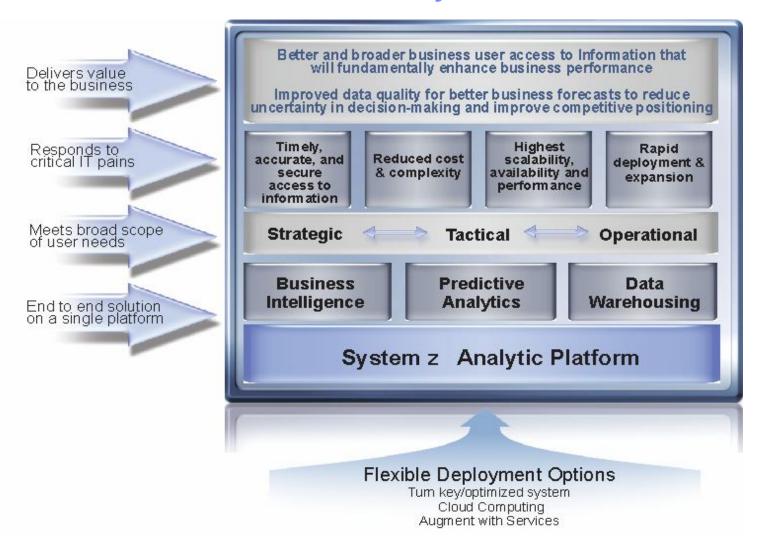
Analysis

- Enables the guided exploration of information that pertains to all dimensions of your business
- Moves from summary level to detail levels of information effortlessly
- Analyzes and reports against online analytical processing (OLAP) and dimensionally aware relational sources
- Gets to the "why" behind an event or action to improve business performance.
- Identifies potential problems and recognizes business trends



A new option ...

IBM Business Analytics and Data Warehousing on System z



The Value of Using Cognos for Enhanced Operational BA

Operational Business Intelligence

- A type of BI that helps drive and optimize business operations on a daily basis
 - Extends the use of BI to a much wider user audience
 - Enables more timely business decisions; in relation to real time or right-time BI Processing
 - Allows business users to report on, analyze and optimize business operations
 - Reduces the time between the discovery of problems or opportunities and taking action on them

Cognos 10 and Operational BI

- Cognos Real-Time Monitoring
- Offers operational dashboards for real time monitoring of key performance indicators and operational metrics across different data sources

The Solution

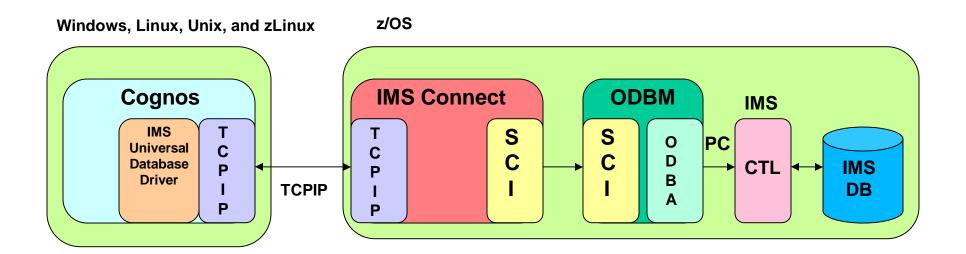
Cognos with IMS 11 – JDBC access to Operational information

- IMS is often the 'hub' for data within an enterprise
 - Manages data that reflects the most current state of the business
- Before IMS 11, often difficult to directly access IMS data
 - No built-in ad hoc query capabilities in IMS
 - Standard tools often did not support hierarchical data; left to write own interfaces and reports or had to purchase bridging tools
 - Must be skilled in IMS to integrate with IMS and write reports
- Most installations periodically copy IMS data to a relational store to run reports
 - They then only have access up to the point of copy, not current business state

IMS Integration with Cognos

IMS V11 Open Database:

- •IMS V11 allows distributed access over TCP/IP using the IMS Universal Database Driver (JDBC)
- •IMS Connect and Open Database Manager now work together as a DRDA server for IMS data
 - Shipped with IMS V11 requires System Programmer for initial setup



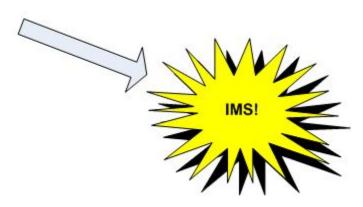
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Using Cognos with IMS

Discovering New Business Value in Existing Data

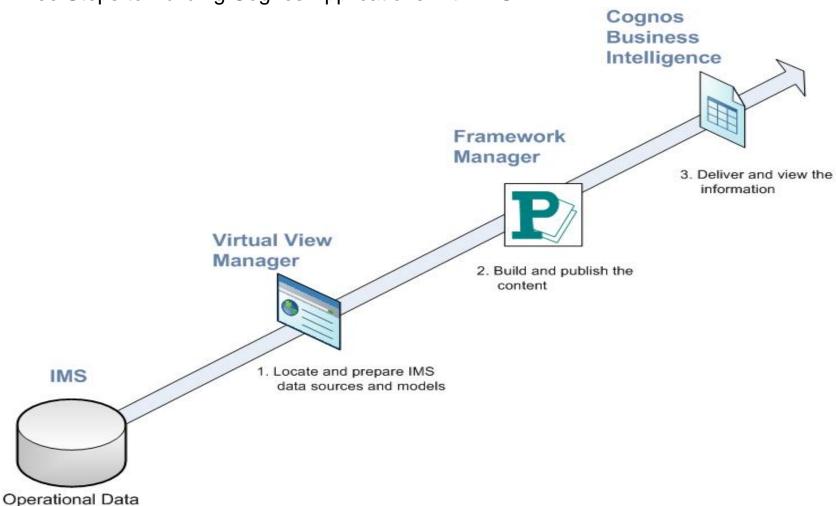
Cognos Data Source Supports:

- Generic JDBC Driver
- ■DB2
- ■Oracle
- Informix
- ■Sybase
- ■MS SQL Server



IMS Integration with Cognos

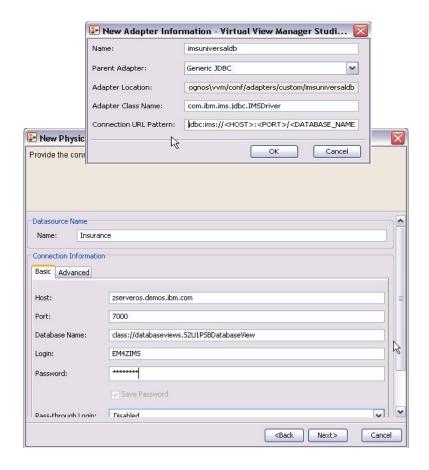
Three Steps to Building Cognos Applications with IMS





Step 1: Setup Virtual View Manager (Data Tier)

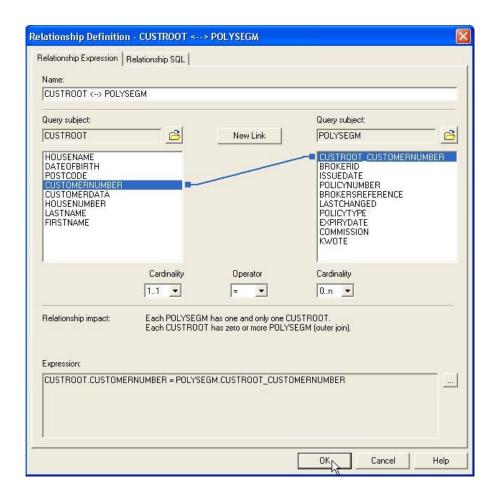
- Stop Virtual View Manager
- Copy IMS JDBC driver (imsudb.jar) and IMS database views* to:
 - \cognos\vvm\conf\adapters\ims
- *Database Views are generated using the DLIModel utility
- Start Virtual View Manager
- Add New Adapter
- Add New Data Source
- Publish IMS Segments (Tables)
- APAR PM12893
 - Generic JDBC support for Data Source Explorer and Cognos
 - July 31, 2010





Step 2: Define Meta Data (Framework Manager)

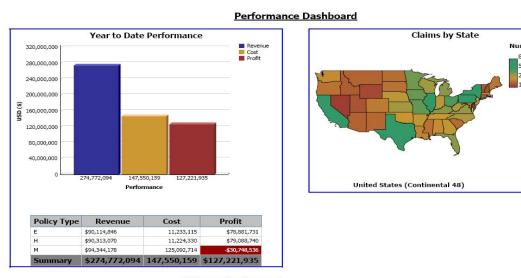
- Import the ODBC Data Source(s)
- Configure the Table relations
 - Required for usage of joins in Cognos
- Publish the Package for use in Cognos





Step 3: Generate the Reports (Application Tier)

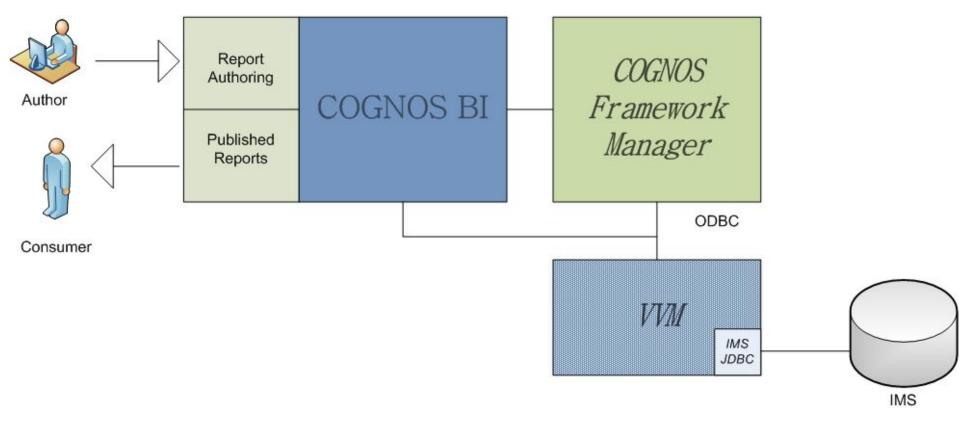
- Open Report Studio (Cognos 10 interface has been enhanced)
- Select the published Package
- Drag the Data objects into the Widgets provided by Cognos



Click to Analyze by Month

IMS Integration with Cognos

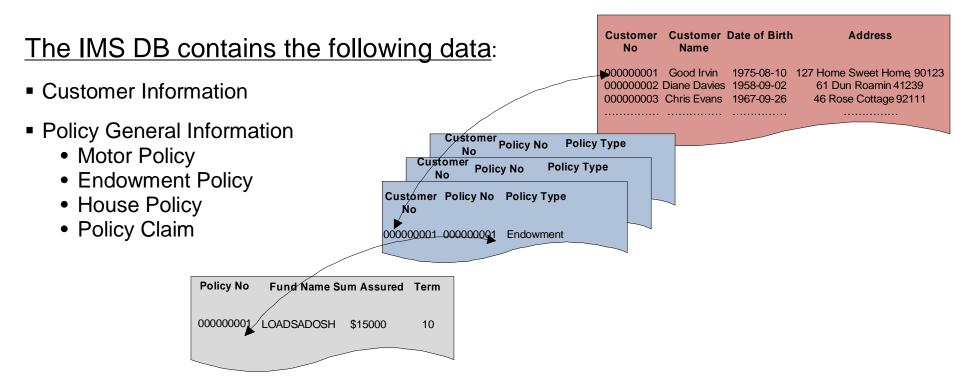
Topology



Cognos and IMS Examples

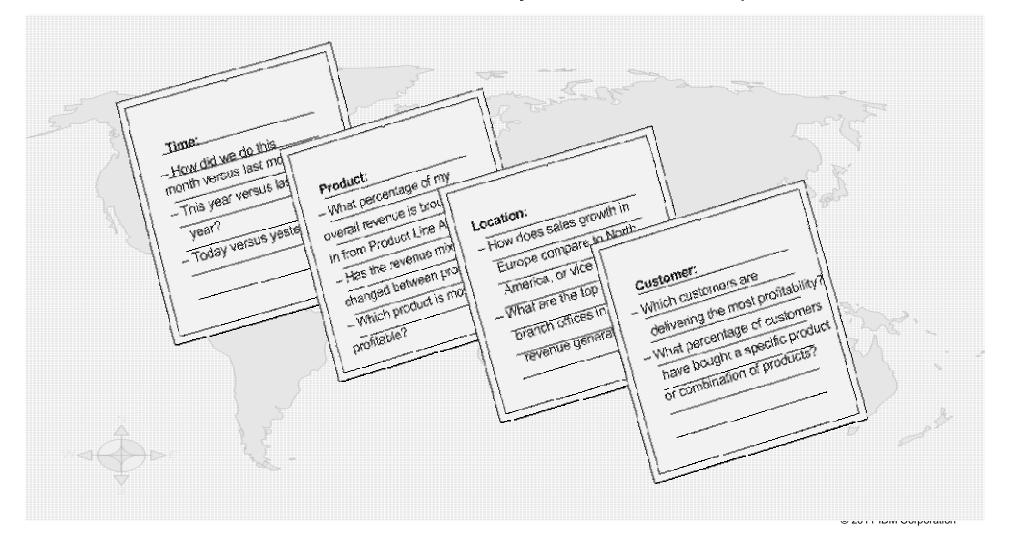
The Application:

- An insurance claims processing application written in a combination of different programming languages (COBOL, PL/I, JAVA).
- CRUD functions access IMS DBs using DLI calls



Using Cognos with IMS

Provides answers to commonly asked business questions



Cognos and IMS Examples

Scenario 1:

Accessing detailed information regarding customer accounts

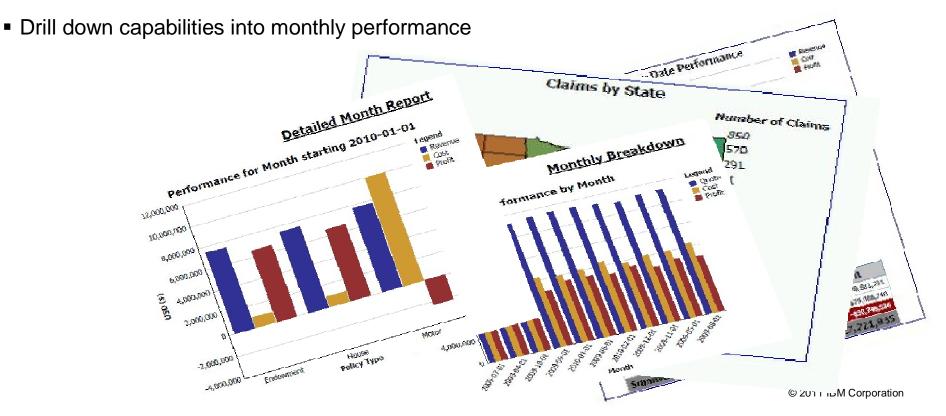
- View basic account information regarding policies with the company
- Drill down capabilities into policies and claims

Cognos and IMS Examples

Scenario 2:

Obtaining a high level overview of key performance measures essential to the organization

- Year to date performance of the insurance firm based on revenue, costs, and profit
- A nation map that displays the number of claims files by state during the current fiscal year



Cognos and IMS – Summary

Extending your Reporting and BI capabilities to IMS provides:

- Real-time access to IMS data for report generating
- Advantages of creating and managing business-related metadata and translating it into visual presentations
- Knowledge to help decision makers know sooner, understand faster,
 and react more quickly than competition
- Ability to compare performance across dimensions to spot trends and anomalies over time

Thank You! Your Feedback is Important to Us



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