

IMS and Cognos: Perfect Together

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Agenda



- What is Cognos?
- Cognos Overview
- The Value of Using Cognos and IMS for Enhanced Reporting and Operational BI
- Cognos and IMS examples
- Installation and operational considerations
- Summary and Next Steps



What is Cognos?



- An industry solution that facilitate business decisions through the implementation of business intelligence (BI) and financial performance management (FPM) software
 - Allows decision makers to aggregate data from transaction systems (SAP, Oracle,... and now IMS.) along with other sources across the organization to create a single, integrated business performance management framework
- Value
 - Reduces the effort needed to generate reports and address new business requirements
 - Reduces complexity through an accurate deployment strategy and the use of existing infrastructure
 - Saves time with proactive administration that enables you to resolve issues before they impact the business
- With IMS
 - Allows IMS data to be integrated into this new environment
 - Using the Cognos generic JDBC driver interface
 - And the IMS universal drivers with ODBM

Cognos Overview – Product Portfolio



Performance Management

The performance management system from Cognos integrates software, services, best practices, and partners.



Performance Management →

- Measuring and monitoring
- Reporting and analysis
- Planning, budgets, and forecasts



IBM Cognos 8 Business Intelligence ∃

All capabilities. One product. One platform.

- Reporting
- Dashboards
- Analysis
- → Extend BI
- Scorecarding Cognos 8 Platform



IBM Cognos Now! →

IBM Cognos Now! is a family of operational business intelligence and performance management solutions available as appliances or hosted software-as-aservice (SaaS) models.



IBM Cognos 8 Planning →

IBM Cognos 8 Planning is a finance-managed solution that provides real-time visibility into resource requirements and future business results.



IBM Cognos TM1 →

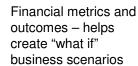
IBM Cognos TM1 software provides a real-time approach to consolidating, viewing, and editing enormous volumes of multidimensional data.

- → IBM Cognos TM1 Overview
- → IBM Cognos TM1 MidMarket Edition



IBM Cognos 8 Controller →

IBM Cognos 8 Controller provides Finance organizations with unmatched capabilities for managing the close, consolidation, and reporting process.



Financial

Performance

Management



BI and PM Solutions

Business

Monitoring of

and workflows

Intelligence

business processes



IBM Coanos Performance Applications

Ready-built reports, analysis, and metrics for key business functions.



IBM Coanos 8

An analytic application for better workforce and HR metrics.



Using Cognos with IMS for Enhanced Reporting and Operational BI



- Customers interested in Cognos want:
 - Lower cost, single platform solution for DW and/or BI
 - New BI operations such as real-time and/or Operational BI
 - Require assured 24x7 operation
 - Consolidate distributed servers
 - Standardization on one or fewer BI tools
 - Data security rules

Bottom Line:

Cognos 8 delivers capabilities (such as reporting, analysis, planning)

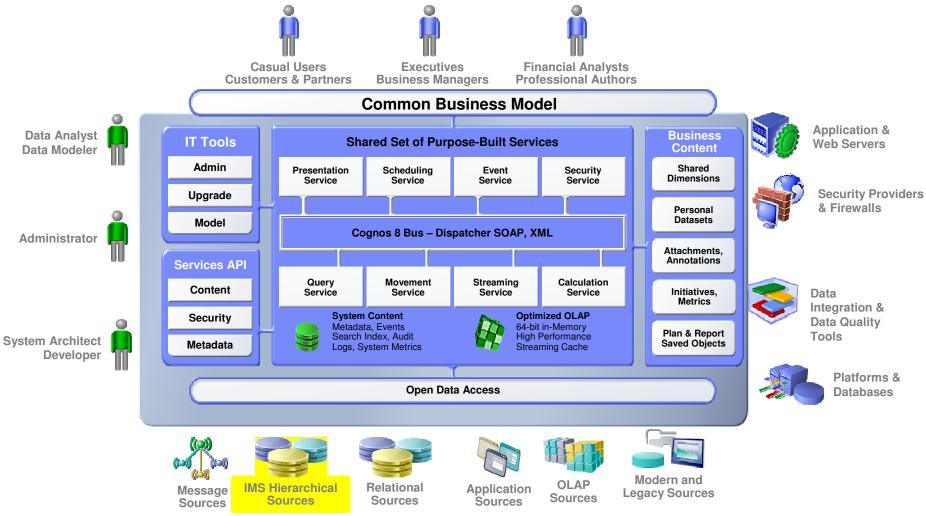
where and how our customers needs them (over the web, to a mobile device via search or MS Office)

through a common set of services that provide access to all data, where ever it resides.



Easily Fitting Into IBM's BI SOA Model



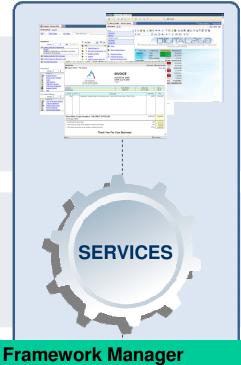


The IBM Cognos 8 platform





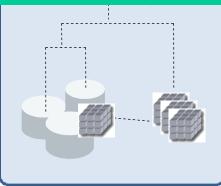
APPLICATION TIER



Broad Range of Capabilities

Common Set of Services

DATA TIER



Open Data Access

(Transactional, Warehouses or Modern data sources)



Reporting & OLAP







- 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



The Solution



Why use Cognos with IMS?

- IMS runs core business processes critical to the running of the business
 - 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
- Many installations periodically copy IMS data to relational store/data warehouse to run reports
 - They then only have access up to the point of copy, not current business state



The Value of Using Cognos and IMS for Enhanced Operational BI



Operational Business Intelligence

- A type of BI that helps drive and optimize business operations on a daily basis
 - Value
 - 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 time between discovery of problems/opportunities and taking action on them
- Cognos and Operational BI
 - Cognos Now!
 - Offers operational dashboards for real time monitoring of key performance indicators and operational metrics across different data sources



Using Cognos with IMS Business Case

Cognos with IMS Improves Functionality by:

Delivering a scalable, Enhancing the efficient value of an Performing technology that existing IMSbusiness is quickly reporting against centric refreshed with Generating No longer infrastructure both operational reports from current data while containing requiring the and data other data move of IMS warehousing costs sources outside data to a environments of IMS relational store to do Business Intelligence



Using Cognos with IMS



AND .. Provides quick answers to commonly asked business questions



SHARE in Boston

Grants report authoring capabilities to all employees of a company

 Enabling companies to quickly and easily get the right information at the right time to the right people

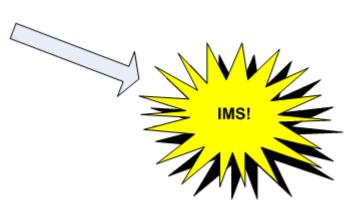
Using Cognos with IMS



Discovering New Business Value in Existing Data

Cognos Data Source Supports:

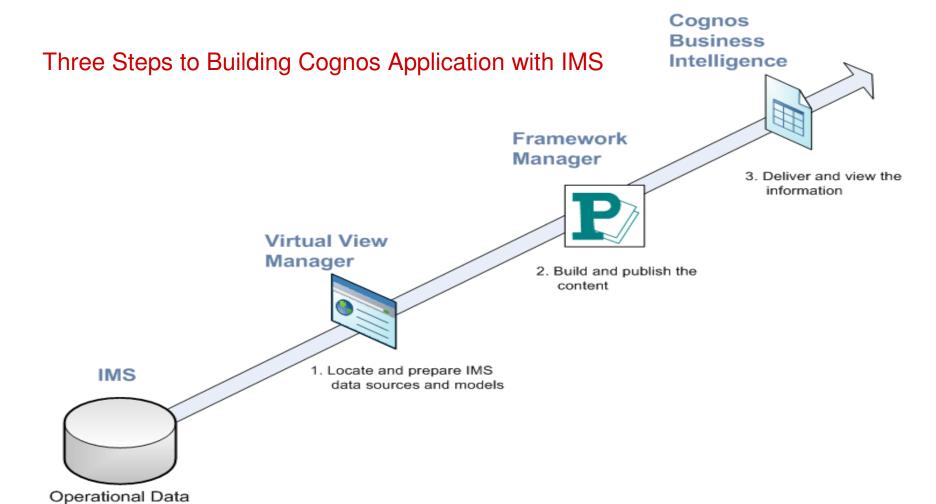
- Generic JDBC Driver
- DB2
- Oracle
- Informix
- Sybase
- MS SQL Server





IMS Integration with Cognos



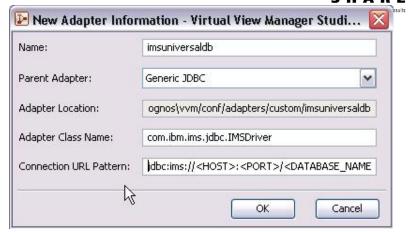


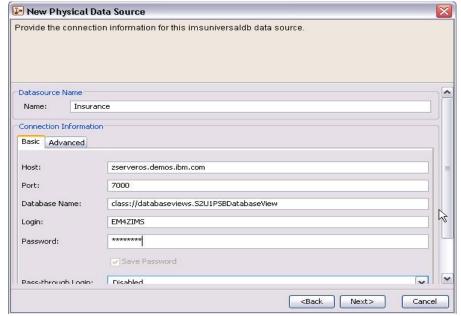




Step 1: Setup Virtual View Manager

- 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)



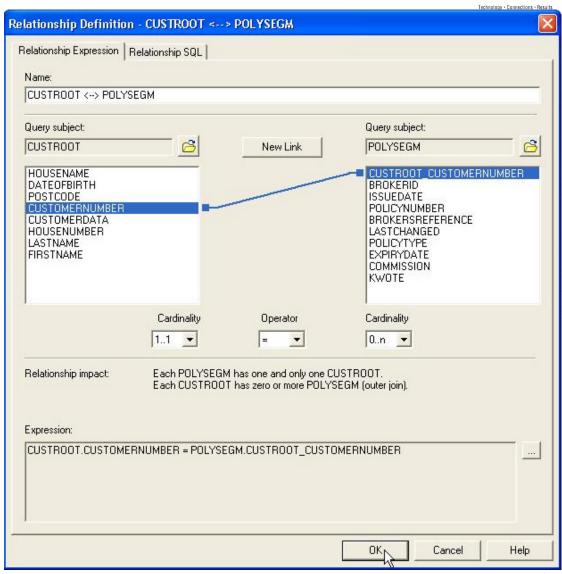






Step 2: Framework Manager Meta Data

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

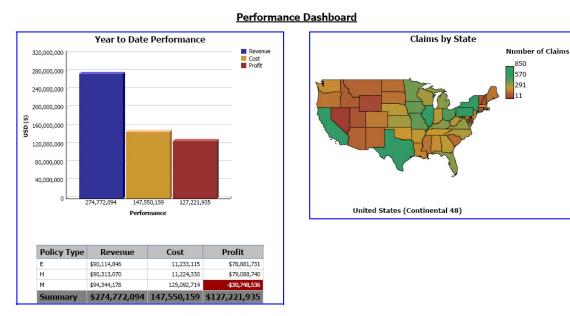








- Open Report Studio
- Select the published Package
- Drag the Data objects into the Widgets provided by Cognos





Click to Analyze by Month

Using Cognos and IMS for Enhanced Operational BI



Software Requirements

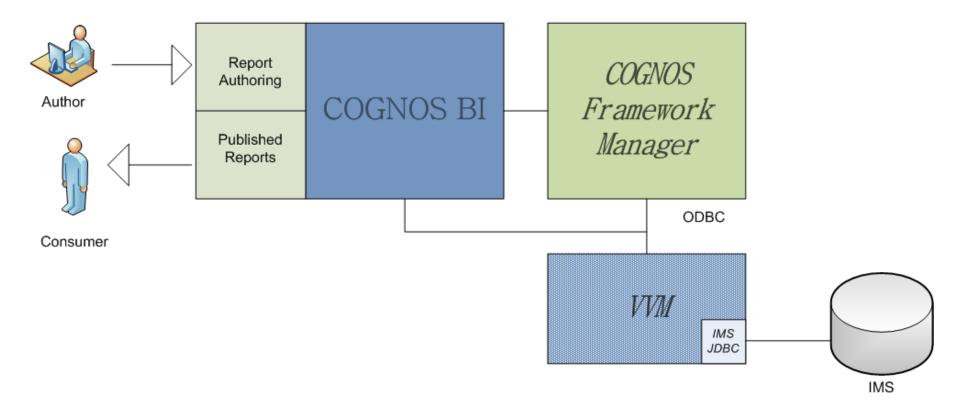
- HTTP Server (Apache HTTP Server 2.2)
- Cognos 8.4.1 Business Intelligence Modeling
 - Framework Manager (FM)
- Cognos 8.4.1 Virtual View Manager (VVM)
- IMS V11
 - IMS Open Database Solution to access IMS data
 - IMS Connect TCP/IP endpoint for Type 4 database access to IMS
 - ODBM IMS component used for processing Type 4 database requests



IMS Integration with Cognos



Topology



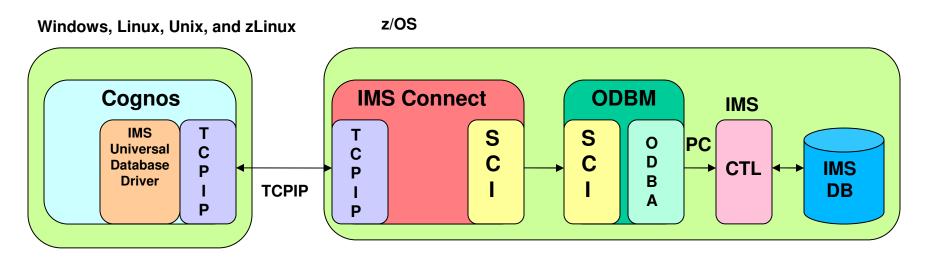


IMS Integration with Cognos



The IMS Environment:

- 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



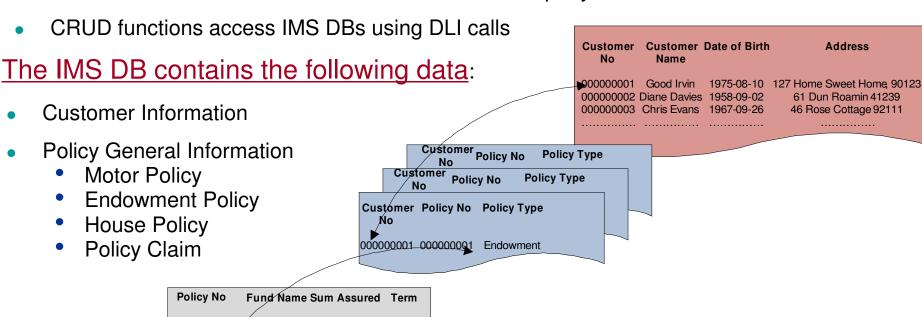


Cognos and IMS Examples



The Application:

- An insurance claims processing application written in a combination of different programming languages (COBOL, PL/I, JAVA).
- The environment mimics a real-world insurance company





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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



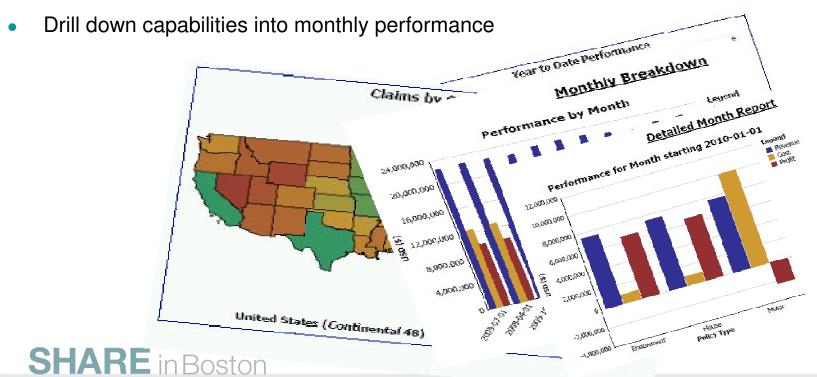
Cognos and IMS Examples



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 and Next Steps



- 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
- Next Steps
 - On-site demo? POC?
 - askzcognos@us.ibm.com

