

IBM Software



Business Analytics **Forum** 2010

See The Future Of Decision Making

November 3-5, 2010

Gold Coast – QLD – Australia

What's New in Enterprise Planning and Analysis

Craig Boyd
IBM



Agenda

- Innovation in IBM Cognos Planning
 - What is NEW!!!!
 - Extend & Blend with IBM TM1
 - Extended Licensing Rights
- Innovation with IBM Cognos TM1
 - What is NEW!!!
 - Conformance with IBM Cognos BI version 10.1
- Innovation with IBM Business Viewpoint
 - What is NEW!!!
- Q&A
- Summary



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Retrospective on Innovation



IBM Cognos Planning v10.1:

Conformance with Cognos BI, significant scalability and performance improvements

IBM Cognos TM1:

Integration with Cognos 8 BI, Advanced Worksheet Design Features, Globalization, Compliance Capabilities

IBM Cognos 8 Planning:

New Contributor Rich Client, Publish Process Performance Improvements, Reduced Deployment Effort

IBM Cognos 8 Controller:

Cognos 8 BI Conformance, Additional SOX Compliance, Reporting Performance Improvements

IBM Cognos 8 Scorecarding :

SAP BW Support, Additional Portlets

IBM Cognos 8 CAFE:

Support for Relational Sources, Customer Enhancements

IBM Cognos 8 Business Viewpoint:

Dimension Management for FPM, Cognos TM1 and Cognos 8 Planning Focus

Evolution of the FPM System



IBM Cognos 10

Cognos Planning



IBM Cognos Planning 10.1 provides:

- Significant scalability and performance improvements
- Better use of computer hardware resources
- Improved reconcile performance and workload management
- Lower and more predictable storage volumes and improved job system resilience
- Optimized publish processes and optimized data types
- Conformance with IBM Cognos Business Intelligence 10.1

The screenshot displays the IBM Cognos Business Insight interface. The main area shows a 'Finance Workspace' with a data table for 'Market Analysis > Order Revenue'. The table is filtered by 'Region (All)', 'Quarter (All)', and 'Segment (All)'. The data is organized by quarter (2007 Q1 and 2007 Q2) and then by month (Feb, Jan, Mar, Apr, Jun). The table includes columns for 'children(Product (All))', 'Order Revenue', 'Net Price', and 'List Price'. Below the main table, there is a 'Regional Revenue' summary table.

Region	children(Product (All))	Order Revenue	Net Price	List Price
Europe	Alpha	9,138,142	1,193,816	2,001,007
	Charger	32,808,999	2,254,623	3,368,055
	Nova	12,812,006	2,016,954	3,348,738
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North America	Alpha	89,488,820	3,801,067	4,450,877
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	Nova	76,715,387	4,376,688	6,234,904
North America - Summary		76,715,387	3,801,067	4,450,877
Overall - Summary		9,138,142	1,193,816	2,001,007





IBM Cognos Planning v 10.1

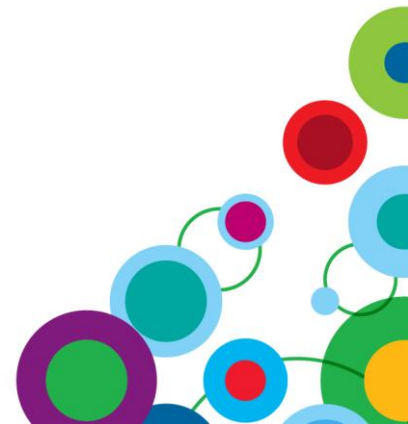
IBM Cognos Planning Contributor improvements

- Provisioning is improved so that you can now have automatic updates of rich client components from a secured Web server.
- You can now see the sum of values contained in cells that you select.
- Significant performance improvements on the Workflow page.
- Significant performance improvements in the grid for large models with sparse access, applications with long e-lists, and complex models with many links targeting individual cubes.

The screenshot shows a grid of numerical data. A red rectangular box highlights a 5x3 area of cells. The values in this area are: Row 1: 74.00, 30.00, 87.00; Row 2: 15.00, 28.00, 58.00; Row 3: 54.00, 48.00, 29.00; Row 4: 79.00, 60.00, 38.00; Row 5: 56.00, 89.00, 36.00. Below the grid, a summary bar displays 'Sum=378.00' and 'Current Owner: Administrator'.

74.00	30.00	87.00	89.00	87.00
15.00	28.00	58.00	41.00	45.00
54.00	48.00	29.00	57.00	45.00
79.00	60.00	38.00	64.00	25.00
56.00	89.00	36.00	15.00	85.00

Sum=378.00 | Current Owner: Administrator



Improved Performance – Admin Console



- Prepare Access Blocks (PAB) replaces Shutdown
 - Very low overhead – considerably less than Shutdown
 - No option to select – always on
 - Creates node specific Access Blocks, shared by common nodes
 - Only regenerated when required
 - Use No Data
 - Performance improvement depends on model
- Reconcile
 - Only nodes affected by model changes will be reconciled
- Synchronise
 - Only forces reconcile if model changes
 - Import data no longer automatically discarded
- Previewing nodes are now supported.
- The process of creating and updating packages as part of the Go to Production process now runs using the Scheduler Credentials account.

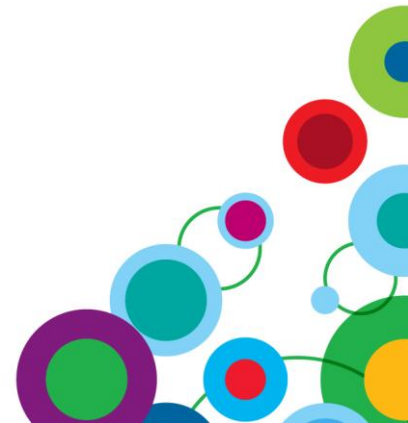




IBM Cognos Planning v 10.1

Macro system improvements

- Running macros in parallel is supported and can improve the use of server resources.
- Starting or restarting a macro at a specific step.
- New Model Doctor macro that configures and runs the Contributor Model Review Tool as a macro step. The output of the Model Doctor macro is an HTML report containing a list of certain noteworthy attributes of the model it was run against.

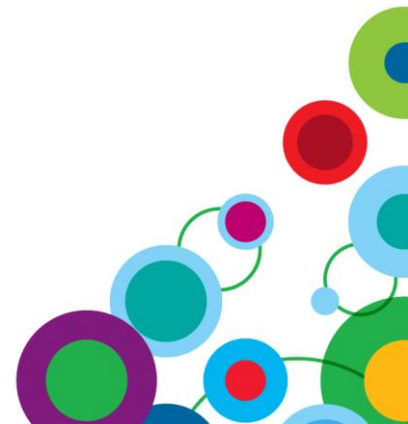


Reduce Processing Overhead

Planning

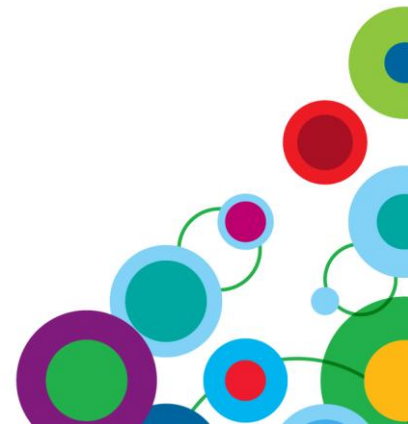


- Improved Job Resilience
 - Solving Common Reasons for Failure, including adding Retry Capabilities
- Start Macros at specific step
- Ability to run Macros in Parallel
- Manual Job Server Testing
 - Job Cluster – every time tested all servers, even those offline
 - Saves time
- Utilise processors upon reaching JOB_END
- More Efficient Job Processing Algorithm & System
 - Ability to pick up higher priority work
 - Aim to Deliver a better balance across running jobs
 - Job threads re-evaluate every 2 mins
 - Very useful for Admin Links - processed within Planning Store



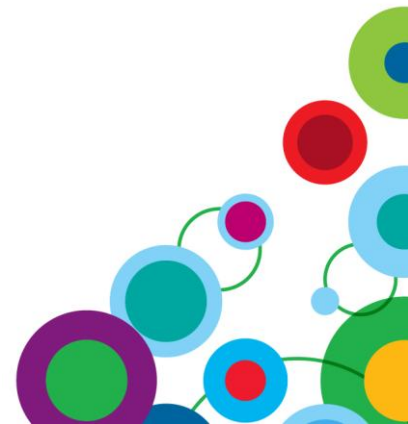
IBM Cognos Planning v 10.1

- Engine and runtime improvements
 - New lighter runtime model definition which decreases download times.
 - Controlling node access improved.
 - Cache management in Planning Service improved, and as a result, the memory footprint for the Planning Server is reduced.
 - The Planning Service can now be run as a non-administrative account or as a network service account, which allows increased security on computers running IBM Cognos Planning.
 - Aggregating data more efficiently, which results in the reduction of memory used and provides better compression of the data during the Reconcile - Data aggregation phase.



IBM Cognos Planning v 10.1

- Publishing and database improvements
 - Annotations and Attached Document tables do not use a dimension for publish
 - New views added to the Publish Tables schema
 - Uses more efficient data types in IBM DB2 for text
- Job system improvements
 - Processes multiple jobs more efficiently as they reach the Job_End phase
 - Automatically retries job items that fail
 - Switches jobs with more efficiency



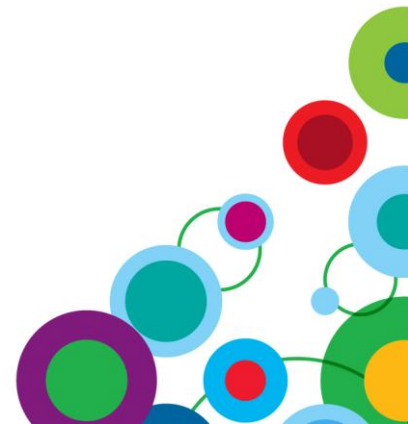
Deliver Publish Improvements



- Remove reasons for using View Publish
 - Ability to Choose “No Dimension for Publish”
 - New views added for Export and Annotations tables

- Schema Changes may mean re-build
 - Prevent DB2 “table too wide” issues
 - Commentary publish tables **do not** honor Dimension for Publish
 - Data tables **always** honor Dimension for Publish
 - Limit the use of CLOBS with DB2

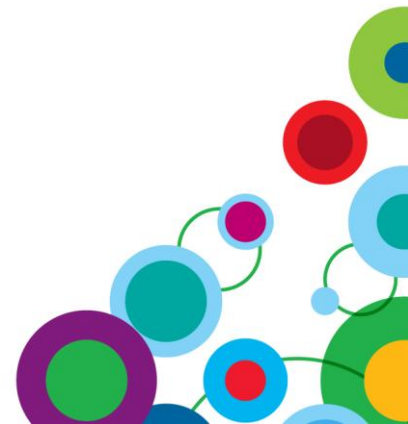
- Incremental
 - Faster for Oracle and DB2
 - Closer to SQL timings
 - Reduced impact from Administration Links



Improved Performance – Rich Client



- Performance in line with Classic Client
- Workflow Page
 - First 50 nodes displayed
 - “More” button
 - Refresh off by default for new models
 - Faster for WAN (14%) and LAN (15%)
 - Particularly for users with access to many nodes
- Enhanced Compression
- Open Grid
 - Cold v Warm Start improved
 - Performance - Reduced data download when opening client
 - Significantly faster
- Excel
 - Export to Excel faster (13%)
 - Excel Accountancy formats no longer supported





Other Changes – Web Client

- Classic (ActiveX) Client removed
- Date/Time stamp on Printed Output
- New Sub-total feature

74.00	30.00	87.00	89.00	87.00
15.00	28.00	58.00	41.00	45.00
54.00	48.00	29.00	57.00	45.00
79.00	60.00	38.00	64.00	25.00
56.00	89.00	36.00	15.00	85.00

Sum=378.00 | Current Owner: Administrator

Page Setup

Margins:

Top: 1.00 Bottom: 1.00
Left: 1.00 Right: 1.00
Header: 1.00 Footer: 1.00

Header and Footer information:

Add Date/Time stamp:

Apply to: Header Footer

Date format: Short
Time format: Short
Alignment: Left

Example: 5/14/10 9:54 AM

Scaling:

Adjust to: 100 % of normal size
 Fit to: 1 page(s) wide by 1 tall

Alignment:

Center Vertically
 Center Horizontally

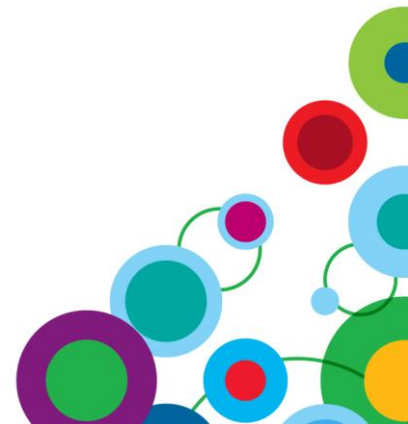
OK Cancel





Cost of Ownership

- Database
 - 98% smaller after 3 GTPs
- Provisioning
 - Automatic Updates from Secured Web Server
 - Finer control
 - Push v Pull
- Installation
 - Must configure Planning Store in Cognos Configuration
 - Planning Store tables may be in the Content Manager database

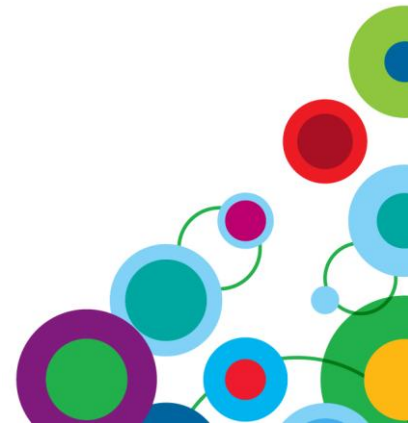


Other Changes – Admin Console



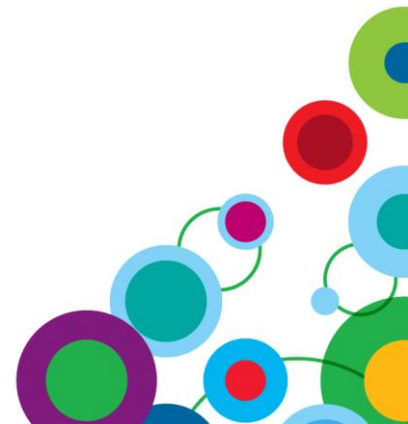
- Macros
 - Order by date/time
 - New macros to Import and Export Translations
 - New Model Doctor Macro

- SPSS now supports FM



Upgrade

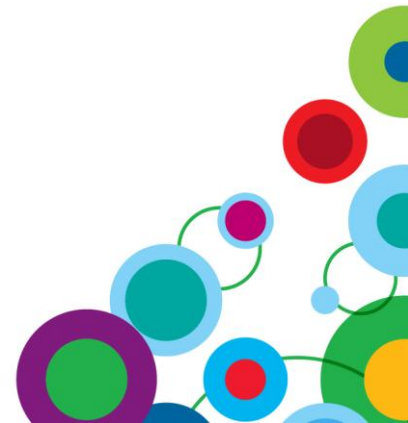
- Deployments – 8.2 upwards
- In-place Upgrade
 - Older Versions
 - Easier to use deployments



Conformance Highlights

- Microsoft Windows 7
- Microsoft Windows 2008 R2
- DB2 9.7
- Microsoft SQL Server 2008
- Oracle 11g Release 2
- Internet Explorer 8
- Firefox 3.5 and 3.6
- Citrix Presentation Server 4.5
- Citrix XenApp 5.0
- VIRTUALIZATION comes in from the cold

Planning





IBM Cognos Planning v 10.1

NEW Equivalent IBM Cognos TM1 Contributor Rights requires:

Contributor Rights requires:

- Customers **MUST** be on the Enterprise Planning licensing
- Customers with earlier Planning licenses **MUST** Trade-up to get a license upgrade to Enterprise Planning Contributor..
- Additional Purchase:
 - Cognos Analytic Server license
 - One or more EP TM1 Modeler licenses
- Additional information is available on:
 - IBM Passport Advantage

IBM Software Subscription and Support

The screenshot shows the IBM Software license agreements overview page. The page title is "Software license agreements". It includes a navigation menu with "Home", "Solutions", "Services", "Products", "Support & downloads", and "My IBM". The main content area has a "Welcome!" message and a paragraph stating: "This site contains IBM's IPLA family of license agreements and program license information documents which apply to certain IBM software announced after May, 1999. These documents are for your reference and viewing convenience. They are normally provided with IBM software in hardcopy form or are imbedded in the software in softcopy form for".

The screenshot shows the IBM Software license agreements search page. The page title is "Software license agreements search". It includes a search form with a "Search" button and a "Search tips" link. Below the search form, there is a section titled "Optionally, you can limit your search results by availability date" with a dropdown menu set to "after" and a date input field containing "(yyyy)mmVDD".

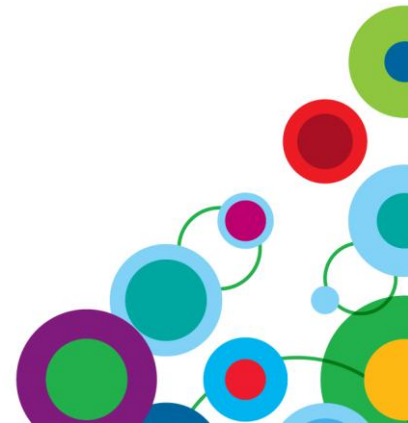
The screenshot shows the IBM Software license agreements search results page. The page title is "All license agreements by program name". It includes a table with the following columns: "Program name", "Program numbers", and "Avail.date". The table contains the following data:

Program name	Program numbers	Avail.date
IBM Tivoli System Automation for z/OS V3.2	5690-SA3	2008/11/27
IBM Rational Migration Extension for CA Technolooes 7.5.1	5724-S50	2009/09/29
IBM SurePOS Application Clients Server Environment Electronic Payment Support for 4899 OS V7 Release.1	5639-BA2 5799-MPE	2008/06/16
IBM Symptom Editor 4.4.1.2	Tools	2008/08/15
IBM Lon Analyzer - RCP v4.4.1.2	Tools	2008/08/15
4899 Environment for Linux Version 1 Release 1	5799-TDA	2007/04/24
56-bit DES Encrypted SMPv3 Support V.5.3	5765-G03 5765-G03 5765-G03 5765-G03 5765-G03 5765-G03 5765-G03	2010/04/13



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IBM Cognos 10 Spotlight on TM1



• IBM Cognos 10 Ready

— Comprehensive support of Business Insight

- Content Browser Support
- Scenario & What-if Analysis (Websheets)
- Contribution and Workflow (Contributor)
- Reporting (TM1 as data source)

— Performance Improvements

- Predictable performance and less contention
- More flexible locking and check-out

— NEW Package Connector (Cognos 8 & 10)

- Support for IBM Cognos SPSS

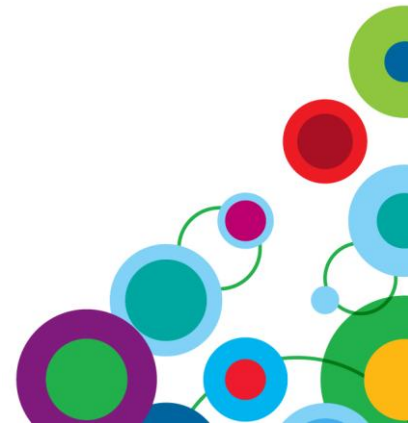
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Region	children(Product (All))	Order Revenue	Net Price	List Price
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	Charger	32,808,999	2,254,623	3,368,055
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North America - Summary		76,715,387	3,801,067	4,450,877
Overall - Summary		9,138,142	1,193,816	2,001,007



Overview Of Key Features

- Package Connector for TI
- Personal Workspace Writeback Mode
- Job Queuing
- Faster Server Loading
- Improved Websheet Paging
- Faster Undo processing / Transaction Log Access with less locking
- Platforms - IE8, IIs7, W2K8, Win7*





IBM Cognos TM1 Package Connector

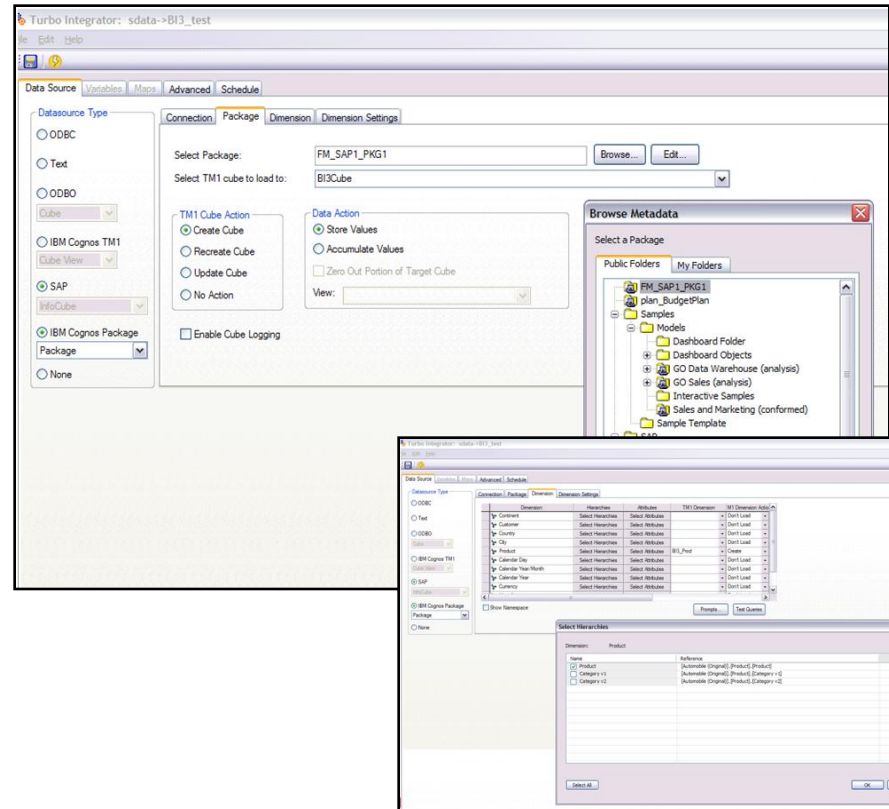
- Leverages all DMR (Dimensionally Modeled Relational) Packages:

- Supported:

- SAP NetWeaver 7.0 EHP1
- SAP NetWeaver 7.0 (2004)
- SAP BW 3.5

- Leverage Existing Cognos 8 BI Reporting Packages

- Cognos 8 Planning 8.4/8.4.1
- Cognos 8 Controller 8.5
- Teradata



IBM Cognos TM1 Package Connector



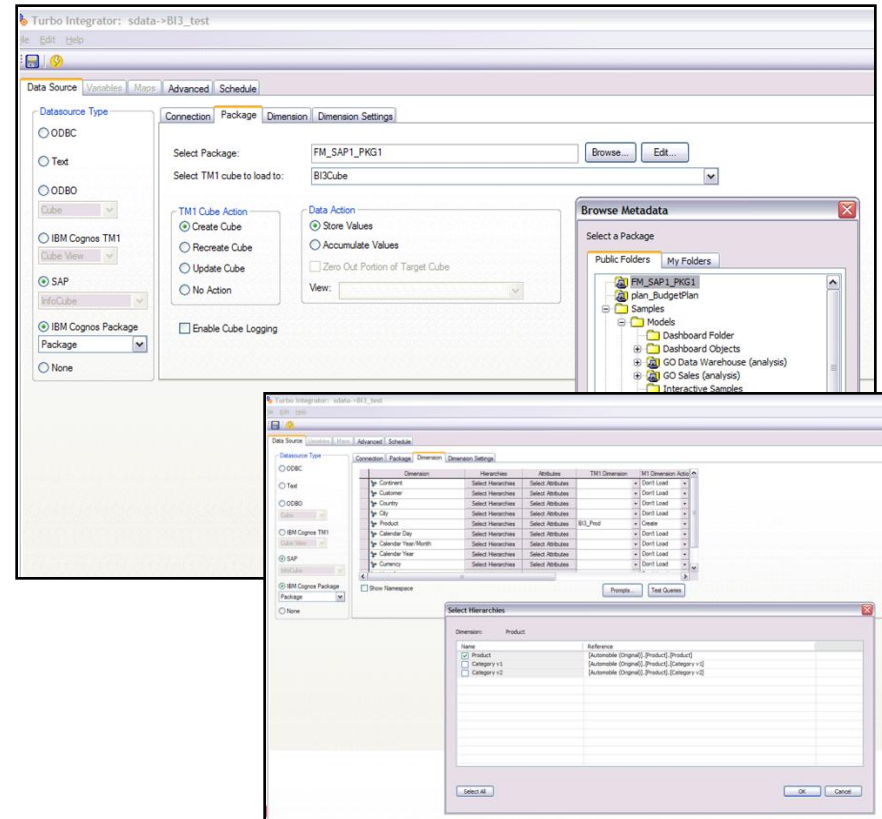
Key Differences Between Package Connector & TI SAP Connector

• Benefits

- No install into the SAP System
- Gives access to Infoquery
- Conformity with IBM Cognos 8.4 Information Services
- Leverage existing Cognos 8 BI packages
- Multi-threaded data extraction
- No separate charge

• Cons

- No write back
- No security access enhancement
- Can't directly pull currency table





TM1 9.5.1 : Writeback Modes

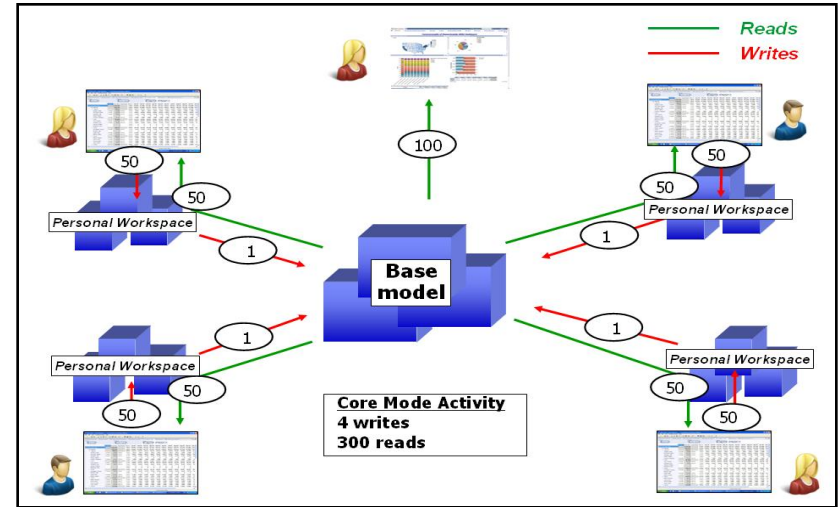
- Administrator Configurable Writeback Modes

- Direct:

- Existing TM1 UI Behavior
 - Writeback immediately updates Base TM1 Model

- Personal Workspace:

- Writeback immediately reflects impact to Base TM1 Model
 - Writeback changes persist in Personal Data Area
 - Blue coloring identifies 'changed cells'
 - Share data changes by 'committing' to Base Model On Demand

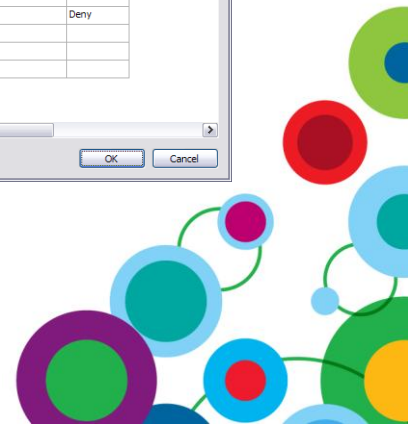


Personal Workspace

- Benefits: Increased User Scalability

- Less frequent updates to Base TM1 Model
 - No contention during data entry (including Data Spreading operations)
 - Read transactions blend changes with Base TM1 Model

Groups	Block Access to Server Explorer	Personal Workspace Writeback Mode	Sandbox
ADMIN			
SecurityAdmin			
DataAdmin			
Dan			
Mike		Grant	Deny
Joe			
Mike2			
tp_Everyone			





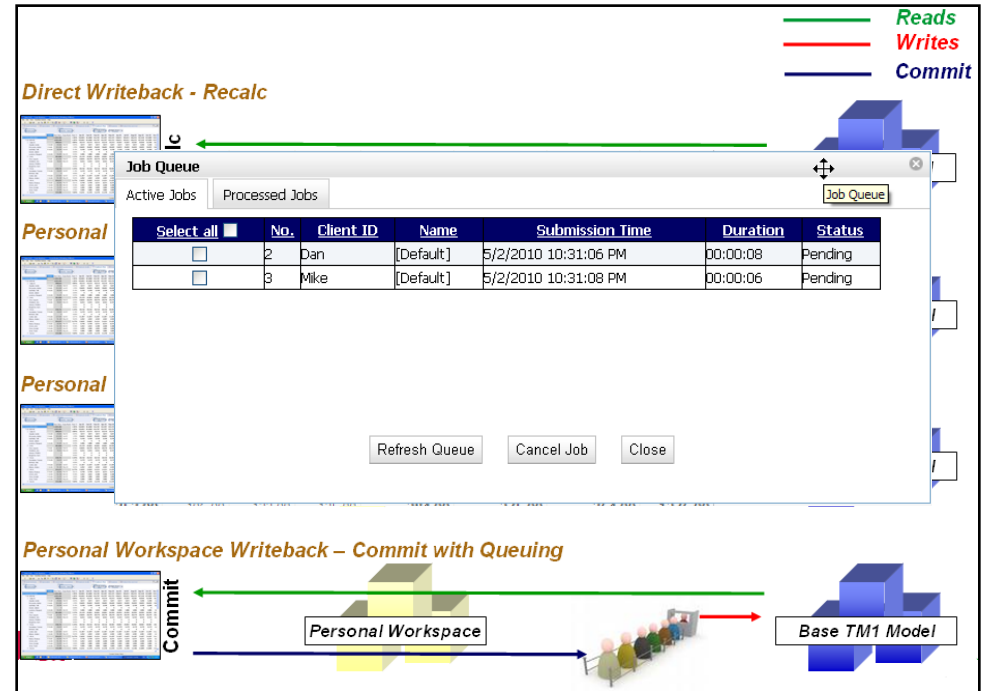
TM1 9.5.1: Queuing

- **Queuing**

- Server Configuration applicable to all users
- Applies to Commit Actions from Personal Workspace
- Re-directs commit updates to Queue for background processing
- Frees user to Exit or continue Data Exploration
- Queue Dialog permits proactive awareness of Server Activity
- Enables End User Control during periods of High Concurrency

- **Benefits:**

- Eliminates End User 'hang' situations caused by object locking
- Provides End User transparency to Server writeback activity
- End Users may continue activity during background processing



Faster Server Startup

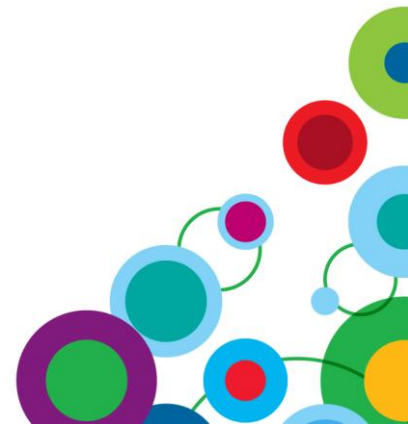


- **Faster Server Startup**

- 80%+ of all TM1 Server Startup time consumed by processing Feeders
 - 'Flagging' calculated cells for Aggregation and Zero Suppression algorithms
 - Optimizes TM1's ability to manage Data Model Sparsity
- Persist Feeder 'Maps' when they 'fire'
 - Initial Startup, Rule File Updates
- Access disk-based Feeder Maps upon subsequent Server Startup
- Reset Option to optimize processing on demand

- **Benefits:**

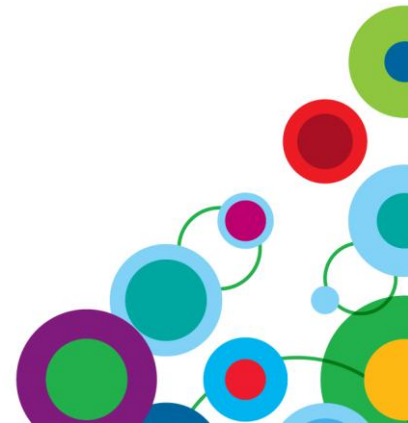
- Server Startup reduced by an order of magnitude
- Limits downtime if Server crashes
- No impact on Server Read/Write processing



Additional Performance Improvements

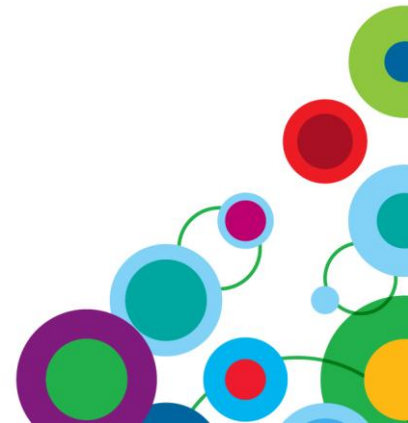


- **Optimized Performance for Transaction Log Access**
 - Undo – optimized access of Transaction Log
 - Starts at end to perform search to find transaction ID
 - Transaction Log Queries don't lock server
 - Breathers permit concurrent access to server objects
- **Significantly optimized processing for large Websheets**
 - Paging now encompasses calculation
- **Increased Platform Conformance**
 - IE 8
 - TM1 Database Server Windows 2008 R2
 - TM1 Web Server Windows 2008 R2
 - IIS 7.5
 - Windows 7
 - 32-bit
 - 64-bit

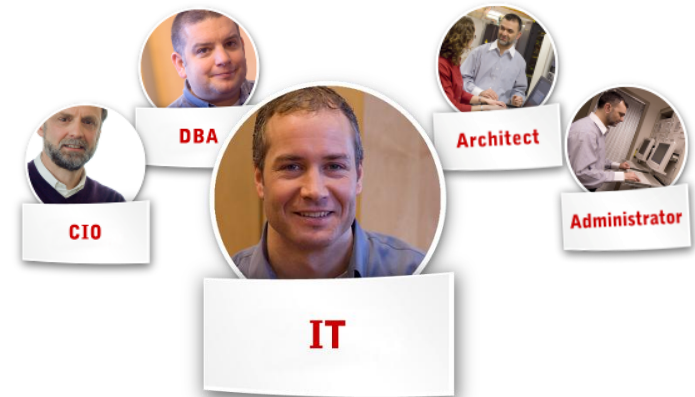


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Managing Dimensions: Business + IT Partnership



- **Freedom to own dimension structures**, relationships and attributes in a shared view
- **Replacement of manual, error-prone efforts** with fully transparent, automated and auditable processes
- **Approved shared viewpoints** for use across BI and Performance Management, and provide those approved structures to IT for other systems
- **Embrace business ownership of dimensions** while maintaining oversight of their work
- **Retain control** of how approved versions are published and used with minimal disruption to downstream systems
- Ensure organization can **respond to business change** with minimal delay

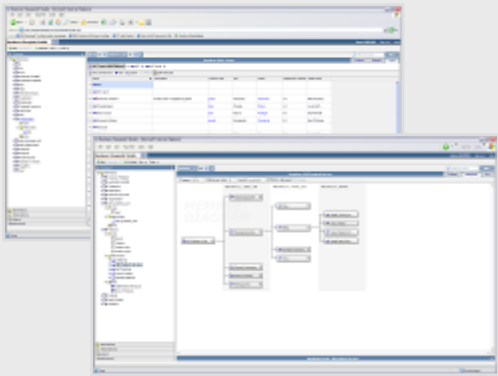


Business Viewpoint – Core Capabilities



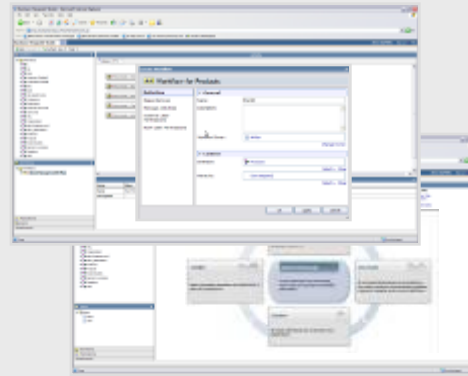
Create and Maintain

Enable the business to capture their own current and future viewpoints



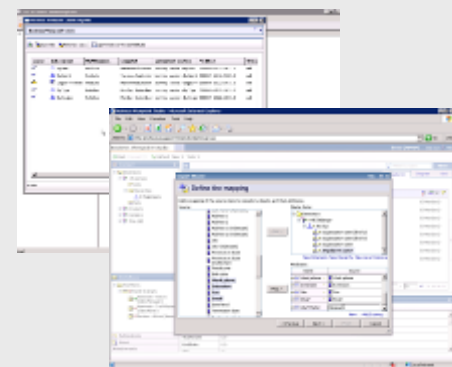
Govern and Collaborate

Replace manual, error-prone efforts with fully transparent, automated and auditable processes

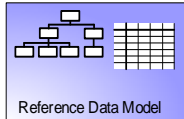


Share and Synchronize

Share approved viewpoints across the decision-making process and systems



Business Viewpoint Overview



Reference Data Model



Impact Management



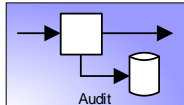
Versioning



Release Management



Change Management



Audit



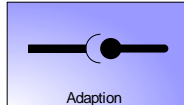
Reporting & Alerting



Security



Data Store



Adaption

Model master chart of accounts, measures, cost centers, legal entities and other performance management dimensions incl. product, customer, channel, geography.

Synchronize dimensional views and attributes with source systems.

Provide version control for current and future states.

Distribute responsibility to business leaders and managers.

Manage the change process through all stages of request, approval, implementation and release.

Assuring end-to-end integrity of financial reference data used across multiple systems.

Auditing, report and alert all changes to ensure traceability and compliance.

Provide appropriate access control for viewing, changing, authorising and publishing changes to reference data.

Provide a centralised repository for reference data that allows visibility of impact of change across the enterprise and a single source of the truth.

Manage multiple formats of the same financial reference data for different systems.

Seamlessly integrate with IBM Cognos reporting, planning and consolidation systems.

IBM Cognos Business Viewpoint 10.1



Advanced hierarchy modeling and collaboration

New **Relationship Tables** allow business modelers to create advanced, ragged and other complex hierarchies

Improved coordination with enterprise reporting

Streamlined wizard and guided user interface for **importing and updating dimensions** in relational databases

Enhanced TM1 Dimension Management

Manage alternate hierarchies in TM1 by subscribing to multiple Business Viewpoint hierarchies in a single TM1 dimension

Business user data management

Coordinate the data flow of business information in Performance Management system

Packaged Dimension Templates

Save entire dimension structures (lists, hierarchies, sets) as a template and **package key dimensions for re-use**

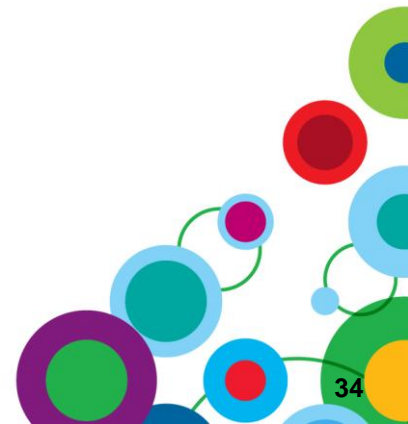
Governing through Business Rules

Establish important **validation rules**, including default values and custom messages





Craig Boyd
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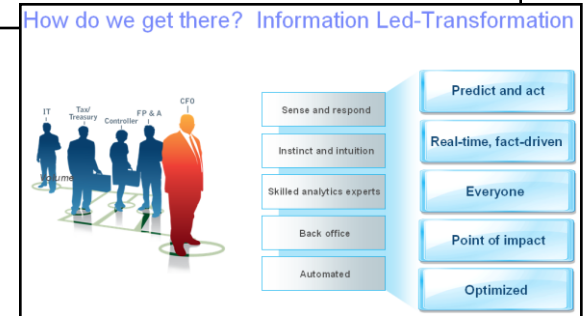
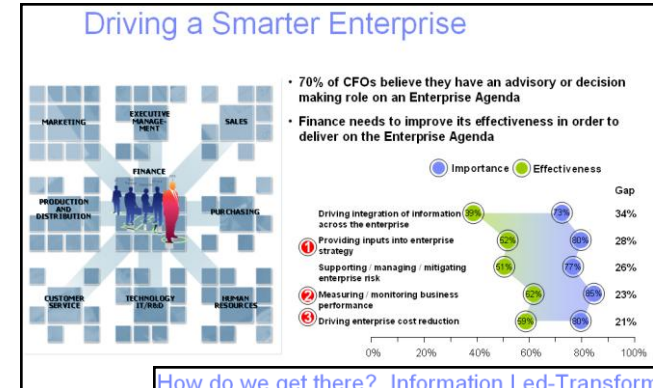




Summary

With the launch of IBM Cognos 10 we continue to:

- Increased Performance and Integration to Drive A Smarter Enterprise
- Protect your current investment in IBM Cognos Planning & IBM Cognos TM1
- Provided innovation to extend each of these solution
- Continue to extend and blend to meet the broadest demands of your business.



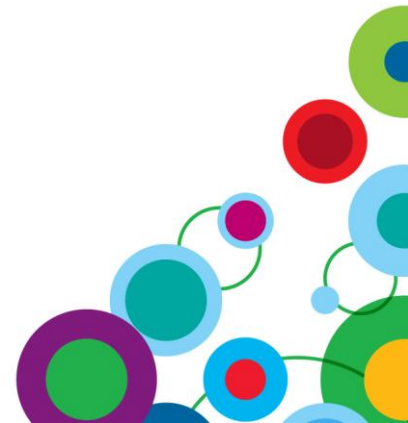
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