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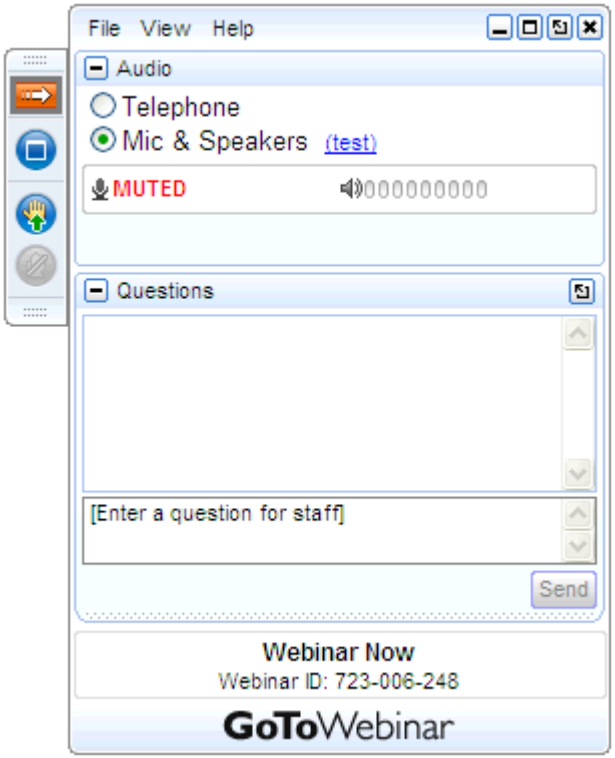
Using TM1 with Cognos BI

Cube Design Tips

GoToWebinar Control Panel



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Today's Agenda

- Introductions
- Overview
- TM1 Report Examples with Cognos BI
- TM1 Cube Design Options
- Including TM1 Text in BI Reports
- Special Offers
- Senturus Introduction
- Additional Resources
- Q & A

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Introduction: Today's Presenters

Greg Herrera

President & Co-Founder

Senturus

Ken O'Boyle

Senior Planning Architect

Senturus

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Poll Question

Which IBM Cognos products do you currently have deployed?

- Cognos BI only
- Cognos TM1 only
- Both Cognos BI and TM1
- Neither product

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Overview

Why Use TM1 with Cognos BI?

Overview

For BI Users: Reasons to Use TM1 as a Data Source

- Faster cycles from input/data load to content delivery
- Reduced ETL processes
- Reporting and analysis directly against an application
- Streamlined inclusion of planning information within the enterprise reporting platform

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Overview

For TM1 Users: Reasons to Use Cognos BI

- Enterprise-scale, web-based reporting platform
- Broaden the audience for TM1 content
- Reduce dependence on Excel

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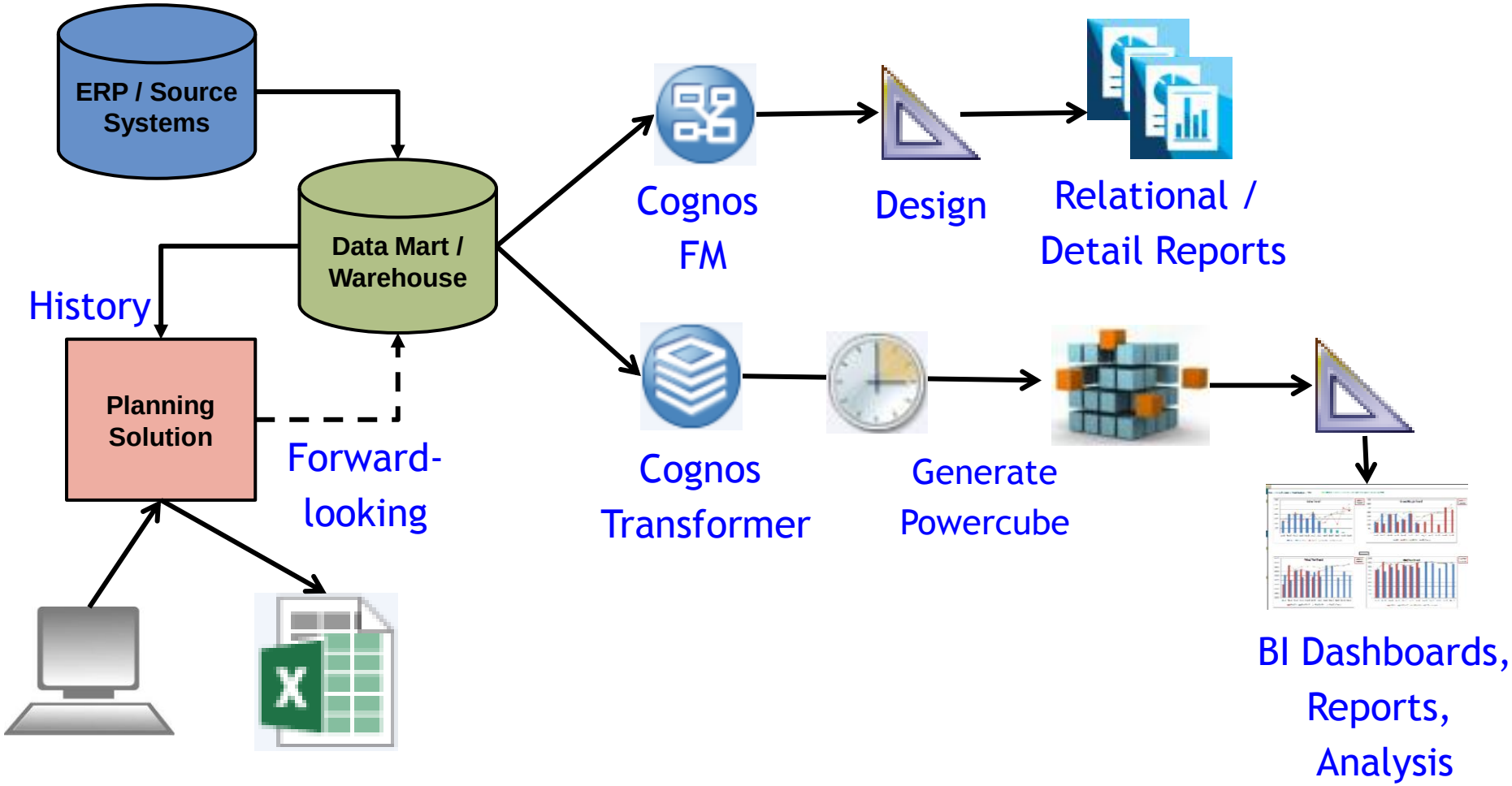
Overview

Common BI Architecture Including Planning Solution



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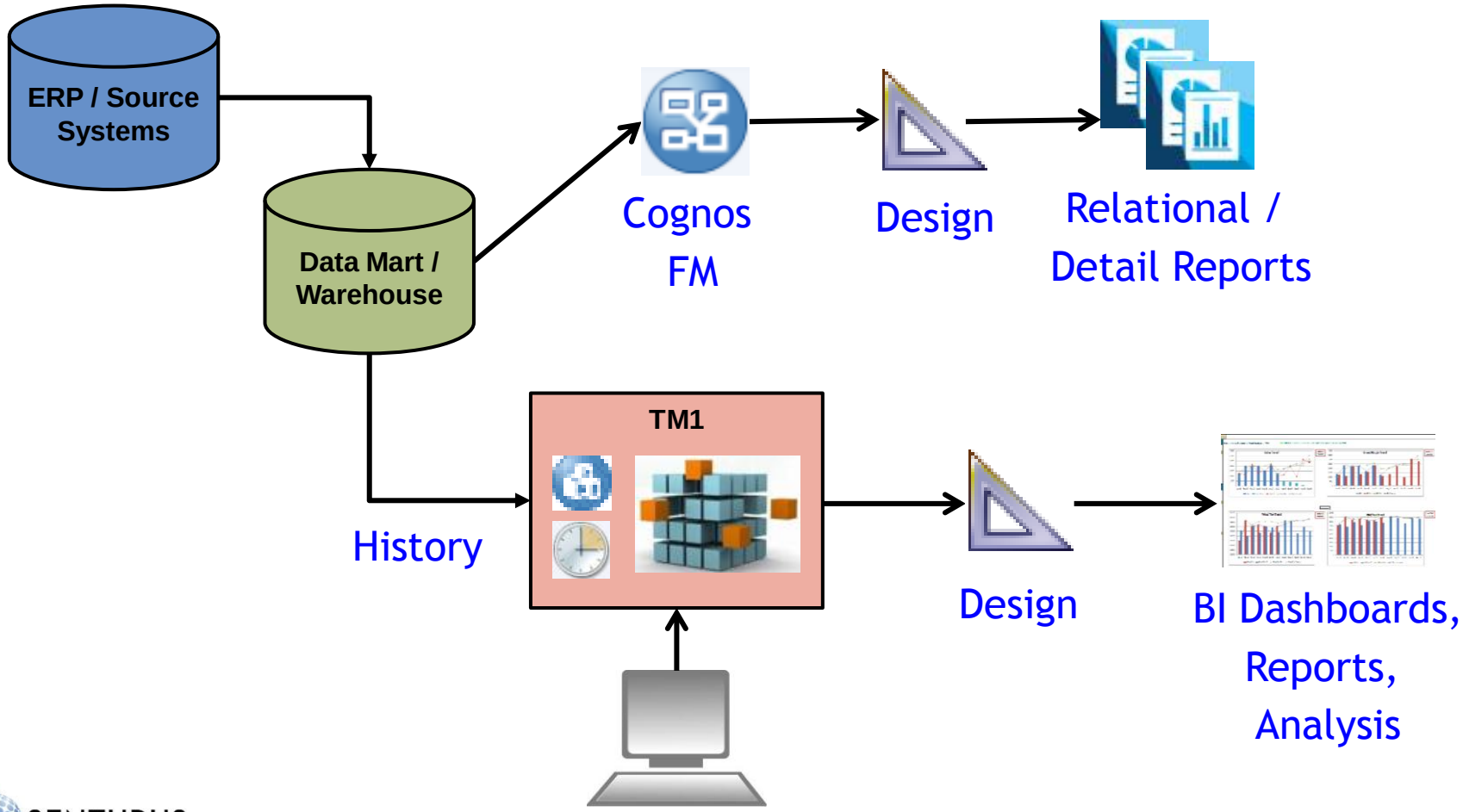
Overview

Streamlined BI Architecture with TM1



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Overview

Key Points

- The BI Package for a TM1 cube has a similar look and capabilities as other OLAP/DMR sources
- Common requirements can be delivered with TM1
  - Balanced and Unbalanced Hierarchies
  - Alternate Hierarchies
  - Dimension Attributes
  - Relative Time
- TM1 Dimension and Cube design impacts BI capabilities
- TM1 allows you to store text values in an OLAP source

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Poll Question

Which issues are you experiencing today using Cognos BI with an OLAP/DMR data source (TM1 or other)?

- BI data source/package doesn't support reporting requirements
- Unable to include text data in reports (cell values)
- Constrained by limited reporting capabilities over the web
- Long processing time to reflect data updates in BI content
- Other

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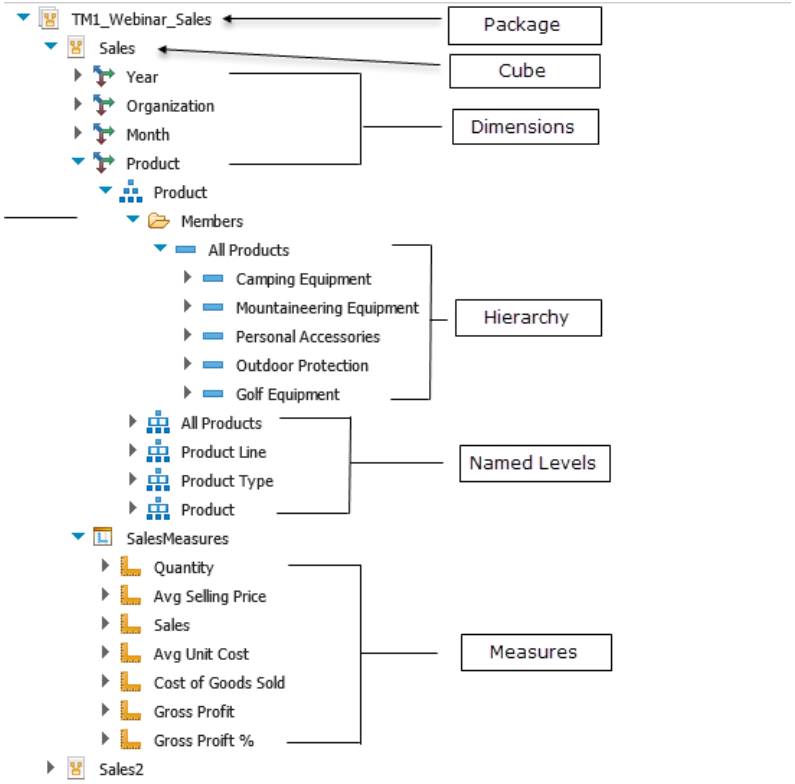
TM1 Reports

Examples

TM1 Reports: Package Example

TM1 Package Characteristics

- Package is a reference to one or more TM1 Cubes
- Displayed the same as other OLAP/DMR sources
- Measures Dimension is specified in TM1 cube design



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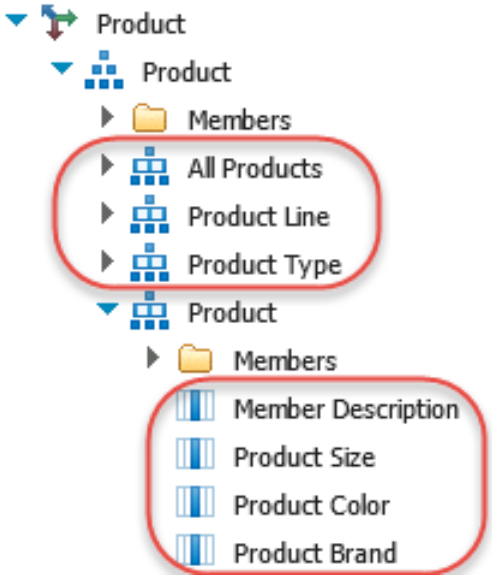
TM1 Reports: Hierarchies

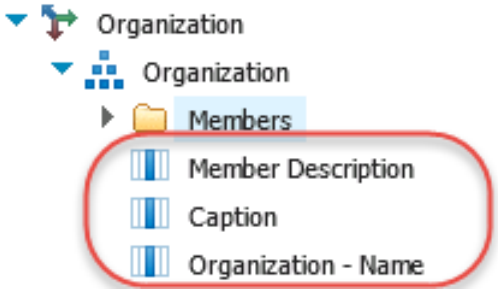
Balanced vs. Unbalanced

Balanced: Example = Product



- Named levels listed accurately and consistently
- Attributes available within each level

Unbalanced: Example = Organization



- Level based reporting is problematic
- Attributes available across the entire hierarchy

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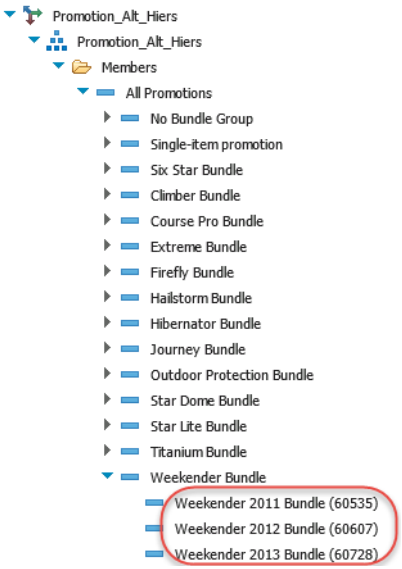
TM1 Reports: Alternate Hierarchies

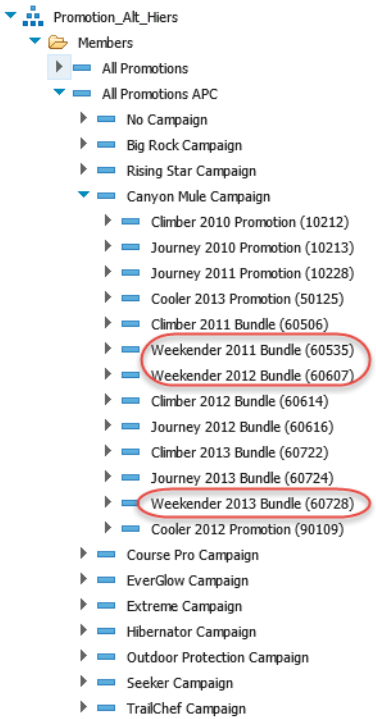
Example: Promotion_Alt_Hiers Dimension

- Use Case: Marketing Promotions
- Two hierarchies each with a with a distinct root element
- Each leaf-level element rolls up to two parent elements
- Rollups by Bundle Group and Campaign

Rollup by Bundle Group



Rollup by Campaign



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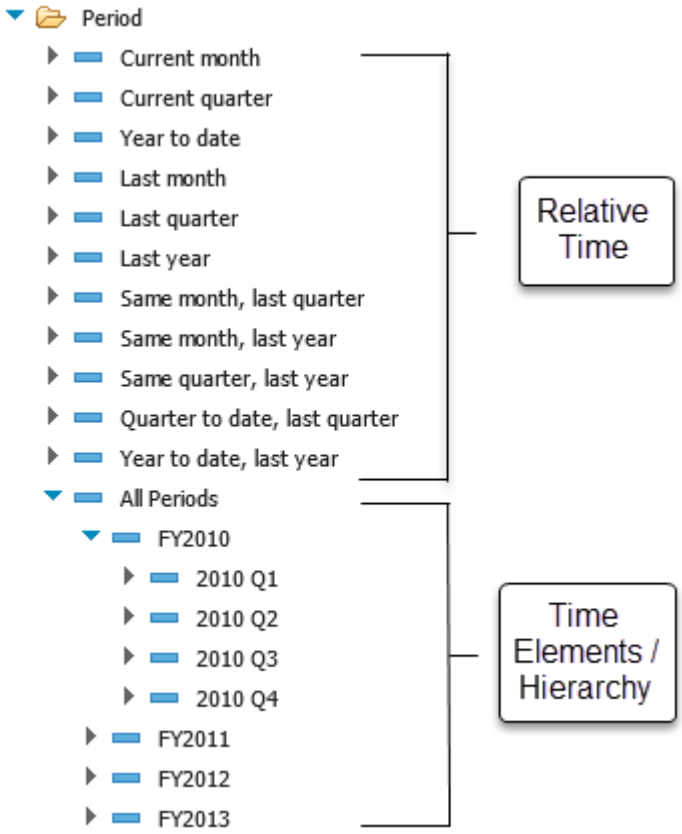
TM1 Reports: Relative Time

Time Dimension Characteristics

- Relative time elements can be constructed (in TM1 10.2.2 they can also be generated)
- Implemented as alternate hierarchies



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TM1 Reports: Example 1
Crosstab with Nested Level and Attribute

Product Sales by Year Report Design

- Product Level is nested to the right of Product Type
- Color attribute is included for each Product

Page layers:
Drop members here to create page layers

Context filter:
GO CONSOLIDATED | Total Year

Product Sales by Year

GO CONSOLIDATED

Total Year

Sales			FY2010	FY2011	FY2012	FY2013
Cooking Gear	TrailChef Utensils	Silver	$3,854,308	$3,975,909	$4,973,395	$3,154,464
	TrailChef Water Bag	Clear	$5,092,695	$6,025,894	$6,967,004	$4,971,549
	TrailChef Canteen	Brow n	$2,511,664	$2,883,664	$3,416,258	$2,521,933
	TrailChef Kitchen Kit	Unspecified	$4,480,343	$4,985,141	$5,883,415	$4,186,928
	TrailChef Cup	Silver	$1,183,317	$1,494,470	$1,702,683	$1,322,033
	TrailChef Cook Set	Silver	$9,053,351	$10,543,391	$12,654,019	$8,933,514
	TrailChef Deluxe Cook Set	Silver	$11,412,423	$14,013,467	$16,275,725	$11,493,539
	TrailChef Single Flame	Silver	$9,524,041	$10,981,117	$13,380,368	$9,304,293
	TrailChef Double Flame	Green	$7,265,106	$9,295,057	$10,609,777	$7,141,235
	TrailChef Kettle	Ash	$5,384,289	$6,645,022	$8,054,871	$5,284,313

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TM1 Reports: Example 2
Crosstab with Relative Time

Product Sales Comparison Report Design

- Columns are defined relative to the current time period

Page layers:
Drop members here to create page layers

Context filter:
GO CONSOLIDATED | All Products

Product Sales Comparison

GO CONSOLIDATED

All Products

Sales	Same month, last year	Current month	Year to date, last year	Year to date
No Campaign	$120,434,127	$157,653,303	$805,855,268	$1,042,933,492
Big Rock Campaign		$1,248,707		$1,744,664
Rising Star Campaign	$2,169,438		$2,169,438	$5,756,873
Canyon Mule Campaign		$3,019,997	$12,523,219	$19,244,134
Course Pro Campaign		$2,139,598	$22,702,111	$26,880,139
EverGlow Campaign			$491,304	$4,142,848
Extreme Campaign			$5,557,234	$3,760,958
Hibernator Campaign	$227,708	$2,245,693	$3,788,740	$7,425,034
Outdoor Protection Campaign		$134,684		$150,569
Seeker Campaign				
TrailChef Campaign			$5,742,690	$5,297,563
All Promotions APC	**$122,831,274**	**$166,441,983**	**$858,830,004**	**$1,117,336,274**

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TM1 Reports: Example 3
Crosstab with Separate Year and Month Dimensions

Product Sales Year-over-Year Comparison Report Design

- Month/quarter can be nested with year
- Not limited to current/relative time periods

Page layers:
Drop members here to create page layers

Context filter:
GO CONSOLIDATED | Total Year

Product Sales Year-over-Year Comparison

GO CONSOLIDATED

Total Year

Sales		Q3		Q4		Total Year	
		FY2011	FY2012	FY2011	FY2012	FY2011	FY2012
Cooking Gear	TrailChef Utensils	$1,044,369	$1,025,937	$1,030,745	$1,296,490	$3,975,909	$4,973,395
	TrailChef Water Bag	$1,267,833	$1,676,719	$1,387,639	$1,579,445	$6,025,894	$6,967,004
	TrailChef Canteen	$672,516	$847,668	$734,654	$818,014	$2,883,664	$3,416,258
	TrailChef Kitchen Kit	$1,112,372	$1,496,161	$1,211,201	$1,498,455	$4,985,141	$5,883,415
	TrailChef Cup	$330,833	$417,897	$442,141	$407,557	$1,494,470	$1,702,683
	TrailChef Cook Set	$2,427,347	$3,409,691	$2,759,013	$3,120,611	$10,543,391	$12,654,019
	TrailChef Deluxe Cook Set	$3,326,645	$4,116,252	$3,629,178	$4,060,798	$14,013,467	$16,275,725
	TrailChef Single Flame	$2,565,315	$3,464,039	$2,972,753	$3,410,821	$10,981,117	$13,380,368
	TrailChef Double Flame	$2,727,372	$2,999,956	$2,186,692	$2,547,372	$9,295,057	$10,609,777
	TrailChef Kettle	$1,477,543	$1,902,172	$1,558,585	$1,830,038	$6,645,022	$8,054,871

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TM1 Cube Design Options

Dimensions, Hierarchies and Attributes

TM1 Design: Hierarchies

Balanced vs. Unbalanced

Balanced

All leaf-elements are the same distance from the root element.

Product

Name	Caption
P000	All Products
P991	Camping Equipment
P951	Cooking Gear
P10110	TrailChef Utensils
P1110	TrailChef Water Bag
P2110	TrailChef Canteen
P3110	TrailChef Kitchen Kit
P4110	TrailChef Cup
P5110	TrailChef Cook Set
P6110	TrailChef Deluxe Cook Set
P7110	TrailChef Single Flame
P8110	TrailChef Double Flame
P9110	TrailChef Kettle
P952	Tents
P953	Sleeping Bags
P954	Packs
P955	Lanterns
P992	Mountaineering Equipment
P993	Personal Accessories

Unbalanced

Distance from root element varies for leaf-level elements.

Organization

Name	Caption
GOCON	GO CONSOLIDATED
GOAMX	GO Americas
GOAMXCP	GO Americas corporate
GOAMXEL	GO Americas eliminations
GOAMXOP	GO Americas operations
017	Sales branch 17 - Calgary - CAN
018	Sales branch 18 - Toronto - CAN
019	Sales branch 19 - Boston - USA
020	Sales branch 20 - Seattle - USA
021	Sales branch 21 - Los Angeles - USA
022	Sales branch 22 - Miami - USA
024	Sales branch 24 - Distrito Federal - MEX
030	Sales branch 30 - São Paulo - BRA
GOCCP	GO Consolidated corporate
GOCEL	GO Consolidated eliminations
GOEAX	GO Asia Pacific
GOEUX	GO Accessories

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TM1 Design: Alternate Hierarchies

Dimension Design for Alternate Hierarchies

- Elements are assigned to more than one parent
- Level names are not hierarchy specific
- Care must be taken to avoid in the design and reporting to avoid double counts

Promotion_Alt_Hiers

Name	Caption	Level
APB	All Promotions	All Promotions
APB300	No Bundle Group	Rollup
AP0	Regular sale (0)	Promotion
APB301	Single-item promotion	Rollup
APB302	Six Star Bundle	Rollup
APB303	Climber Bundle	Rollup
APB304	Course Pro Bundle	Rollup
APB305	Extreme Bundle	Rollup
APB306	Firefly Bundle	Rollup
APB307	Hailstorm Bundle	Rollup
APB308	Hibernator Bundle	Rollup
APB309	Journey Bundle	Rollup
APB310	Outdoor Protection Bundle	Rollup
APB311	Star Dome Bundle	Rollup
APB312	Star Lite Bundle	Rollup
APB313	Titanium Bundle	Rollup
APB314	Weekender Bundle	Rollup
APC	All Promotions APC	All Promotions
APC50	No Campaign	Rollup
AP0	Regular sale (0)	Promotion

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TM1 Design: Named Levels

Level Attribute

- System-generated attribute
- Defaults Level 1 … Level n (top down)
- Defaults are ignored in BI
- Editing the Level for one element updates all peers
- Named Levels provide additional capabilities in BI

Organization

Organization

Name	Caption	Level
GOCON	GO CONSOLIDATED	Level 1
GOAMX	GO Americas	Level 2
GOAMXCP	GO Americas corporate	Level 3
GOAMXEL	GO Americas eliminations	Level 3
GOAMXOP	GO Americas operations	Level 3
017	Sales branch 17 - Calgary - CAN	Level 4
018	Sales branch 18 - Toronto - CAN	Level 4
019	Sales branch 19 - Boston - USA	Level 4
020	Sales branch 20 - Seattle - USA	Level 4
021	Sales branch 21 - Los Angeles - USA	Level 4
022	Sales branch 22 - Miami - USA	Level 4
024	Sales branch 24 - Distrito Federal - MEX	Level 4
030	Sales branch 30 - São Paulo - BRA	Level 4
GOCCP	GO Consolidated corporate	Level 2

Product

Name	Caption	Level
P000	All Products	All Products
P991	Camping Equipment	Product Line
P951	Cooking Gear	Product Type
P10110	TrailChef Utensils	Product
P1110	TrailChef Water Bag	Product
P2110	TrailChef Canteen	Product
P3110	TrailChef Kitchen Kit	Product
P4110	TrailChef Cup	Product
P5110	TrailChef Cook Set	Product
P6110	TrailChef Deluxe Cook Set	Product
P7110	TrailChef Single Flame	Product
P8110	TrailChef Double Flame	Product
P9110	TrailChef Kettle	Product
P952	Tents	Product Type

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TM1 Design: Attributes

Attribute Characteristics

- Attribute Types: Alias, Text, Numeric
- One Alias attribute for each dimension can be set as the default display name in the BI package
- Populate at any or all levels of the hierarchy
- Attributes can be included in BI content

Product

Name	Caption	Product Size	Product Color	Product Brand
P000	All Products			
P991	Camping Equipment			
P951	Cooking Gear			
P10110	TrailChef Utensils	4-piece	Silver	TrailChef
P1110	TrailChef Water Bag	10 liters	Clear	TrailChef
P2110	TrailChef Canteen	2 liters	Brown	TrailChef
P3110	TrailChef Kitchen Kit	15-piece	Unspecified	TrailChef
P4110	TrailChef Cup	330 ml	Silver	TrailChef
P5110	TrailChef Cook Set	6-piece	Silver	TrailChef
P6110	TrailChef Deluxe Cook Set	9-piece	Silver	TrailChef
P7110	TrailChef Single Flame	Single-burner	Silver	TrailChef
P8110	TrailChef Double Flame	Double-burner	Green	TrailChef
P9110	TrailChef Kettle	1.5 liters	Ash	TrailChef
P952	Tents			

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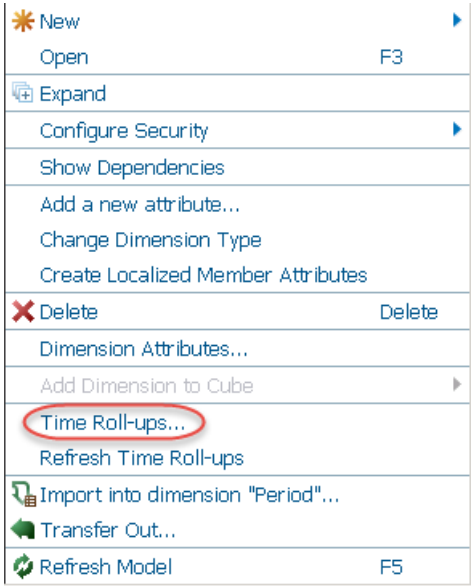
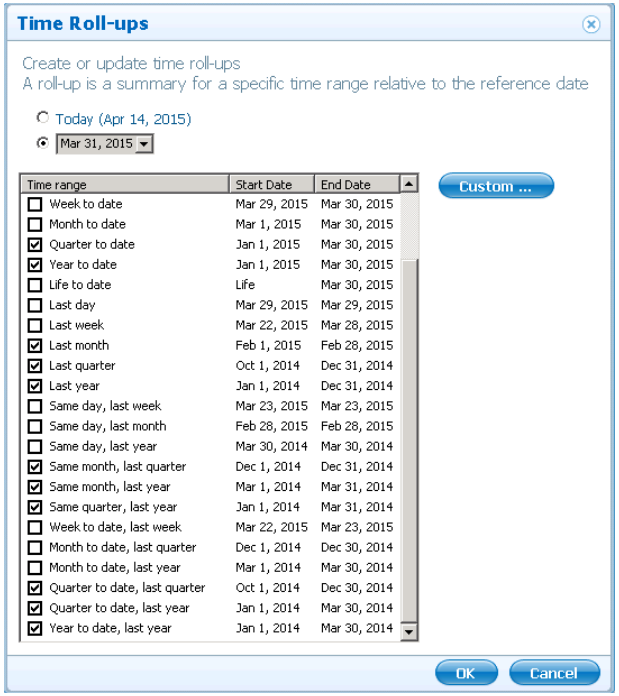
TM1 Design: Relative Time

Time Dimension Features

- Dimension Type = Time: generates common attributes
- Populate Time Dimension Wizard populate elements, hierarchy and attributes
- Right-mouse menu has option to generate relative time elements





Time range	Start Date	End Date
Week to date	Mar 29, 2015	Mar 30, 2015
Month to date	Mar 1, 2015	Mar 30, 2015
Quarter to date	Jan 1, 2015	Mar 30, 2015
Year to date	Jan 1, 2015	Mar 30, 2015
Life to date	Life	Mar 30, 2015
Last day	Mar 29, 2015	Mar 29, 2015
Last week	Mar 22, 2015	Mar 28, 2015
Last month	Feb 1, 2015	Feb 28, 2015
Last quarter	Oct 1, 2014	Dec 31, 2014
Last year	Jan 1, 2014	Dec 31, 2014
Same day, last week	Mar 23, 2015	Mar 23, 2015
Same day, last month	Feb 28, 2015	Feb 28, 2015
Same day, last year	Mar 30, 2014	Mar 30, 2014
Same month, last quarter	Dec 1, 2014	Dec 31, 2014
Same month, last year	Mar 1, 2014	Mar 31, 2014
Same quarter, last year	Jan 1, 2014	Mar 31, 2014
Week to date, last week	Mar 22, 2015	Mar 23, 2015
Month to date, last quarter	Dec 1, 2014	Dec 30, 2014
Month to date, last year	Mar 1, 2014	Mar 30, 2014
Quarter to date, last quarter	Oct 1, 2014	Dec 30, 2014
Quarter to date, last year	Jan 1, 2014	Mar 30, 2014
Year to date, last year	Jan 1, 2014	Mar 30, 2014

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TM1 Design: Measure Dimension

Measure Dimension Characteristics

- Cube Property: Measure Reporting Dimension
- Mandatory selection before creating BI package
- Elements are displayed as Measures in BI

Properties

Property	Value
Name	Sales2
Type	Cube
Security Owner	
Dimensions	5
	Organization (Webinar/Sales Reporting/Dimensions/Organization)
	Promotion_Alt_Hiers (Webinar/Sales Reporting/Dimensions/Promotion_Alt_Hiers)
	Period (Webinar/Sales Reporting/Dimensions/Period)
	Product (Webinar/Sales Reporting/Dimensions/Product)
	SalesMeasures (Webinar/Sales Reporting/Dimensions/SalesMeasures)
Source Links	0
Target Links	0
Internal Links	0
Time Reporting Dimension	Period
Measures Reporting Dimension	SalesMeasures

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TM1 Text Cells in BI Reports

List Report Example

TM1 Text in Cells

Common Challenge

- TM1, unlike many OLAP platforms, supports Text values in cube cells
- BI crosstabs do not render text, so the typical method for reporting and analysis against an OLAP source is not applicable to this use case

Solution

- Use BI list reports when you need to deliver text values in reports

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TM1 Text in Cells

Scenario

- TM1 Supports Text/Date-formatted Measures
- Requirement: Formatted Report with Crosstab Layout
- BI Crosstab Component does not Display Dates or Text

TM1 Cube Viewer

Employee

Rows: Rows RowNo-Emp | Columns: Employee Report Employee Info | Context: 10 G&A Dept Cost Center, Forecast Version

	Employee Name	New Hire	Business Title	Status	St	Annual Salary
1	Agatha Reyes		Receptionst	FT	CA	35,360
2	Alice Walter		FP & A	FT	CA	110,000
3	Bart Scott		Executive Assistant	FT	CA	95,000
4	Dave Smythe		Corporate Controller	FT	CA	162,750
5	Donald Ward		Senior Accountant	FT	CA	85,000
6	Emily Browne		Senior Accountant	FT	CA	60,937
7	Jake Cartel		Treasurer	FT	CA	147,000
8	Janice Thomas		Chief Financial Officer	FT	CA	230,000
9	Karly Millers		Senior Accountant	PT	CA	50,000
10	Michael Horak		Accounts Payable Specialist	FT	CA	55,000
11	Paula Merkley		Chairman and CEO	FT	CA	350,000
12	Rick Butler		Sr. Business System Analyst	FT	CA	105,000
13	Samantha Pierce		Sr. Accounting Manager	FT	CA	127,500
14	Stan Gardiner		President & COO	FT	CA	250,000
15	TBH	Y	Sales Controller	FT	CA	127,500
16	TBH	Y	SOX	FT	CA	80,000
17	TBH	Y	General Counsel	FT	CA	200,000
18	TBH	Y	2015 Planning	FT	CA	90,000
19	TBH	Y	2015 Planning	FT	CA	90,000

Cognos BI Crosstab

IBM Cognos Viewer - TM1 Report with Text - Crosstab

Keep this version

Employee Report

10 G&A Dept

Forecast

	Employee Name	New Hire	Business Title	Status	St	Current Annual Salary
All Employees						2,451,047
1	--		--	--	--	35,360
2	--		--	--	--	110,000
3	--		--	--	--	95,000
4	--		--	--	--	162,750
5	--		--	--	--	85,000
6	--		--	--	--	60,937
7	--		--	--	--	147,000
8	--		--	--	--	230,000
9	--		--	--	--	50,000
10	--		--	--	--	55,000
11	--		--	--	--	350,000
12	--		--	--	--	105,000
13	--		--	--	--	127,500

Top Page up Page down Bottom

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TM1 Text in Cells

Display TM1 Text with List Report

- Be sure to make a specific selection for each dimension in the report body, page or context area
- Include at least one measure as a column

Cognos BI List Report

IBM Cognos Viewer - TM1 Report with Text - List admin Log Off About IBM

Keep this version Add this report

Employee Report

10 G&A Dept

Forecast

Row No	Employee Name	Business Title	New Hire	Status	Location	Hire Period	Current Annual Salary	Monthly Salary	Monthly Bonus Accrual	Monthly Wages
All Employees							2,451,047	204,254	28,583	232,837
1	Agatha Reyes	Receptionst		FT	HQ	Apr-13	35,360	2,947		2,947
2	Alice Walter	FP & A		FT	HQ	Jul-11	110,000	9,167		9,167
3	Bart Scott	Executive Assistant		FT	HQ	Jan-04	95,000	7,917		7,917
4	Dave Smythe	Corporate Controller		FT	HQ	May-07	162,750	13,562	1,667	15,229
5	Donald Ward	Senior Accountant		FT	HQ	May-12	85,000	7,083		7,083
6	Emily Brow ne	Senior Accountant		FT	HQ	May-08	60,937	5,078		5,078
7	Jake Cartel	Treasurer		FT	HQ	May-09	147,000	12,250		12,250
8	Janice Thomas	Chief Financial Officer		FT	HQ	Mar-08	230,000	19,167	6,083	25,250
9	Karly Millers	Senior Accountant		PT	HQ	Sep-13	50,000	4,167		4,167
10	Michael Horak	Accounts Payable Specialist		FT	HQ	Aug-13	55,000	4,583		4,583
11	Paula Merkley	Chairman and CEO		FT	HQ	Jun-10	350,000	29,167	12,500	41,667
12	Rick Butler	Sr. Business System Analyst		FT	HQ	Oct-13	105,000	8,750		8,750
13	Samantha Pierce	Sr. Accounting Manager		FT	HQ	Nov-13	127,500	10,625		10,625

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TM1 Text in Cells

List Report Design

Cognos BI List Report Design

File Edit View Structure Data Style Run Tools Help

Font Size 1 pt

Page layers:
Drop members here to create page layers

Context filter:
10 G&A Dept Forecast

Employee Report

10 G&A Dept

Forecast

Row No	Employee Name	Business Title	New Hire	Status	Location	Hire Period	Current Annual Salary	Monthly Salary	Monthly Bonus Accrual	Monthly Wages
All Employees							2,451,047	204,254	28,583	232,837
1	Agatha Reyes	Receptionst		FT	HQ	Apr-13	35,360	2,947		2,947
2	Alice Walter	FP & A		FT	HQ	Jul-11	110,000	9,167		9,167
3	Bart Scott	Executive Assistant		FT	HQ	Jan-04	95,000	7,917		7,917
4	Dave Smythe	Corporate Controller		FT	HQ	May-07	162,750	13,562	1,667	15,229
5	Donald Ward	Senior Accountant		FT	HQ	May-12	85,000	7,083		7,083
6	Emily Brow ne	Senior Accountant		FT	HQ	May-08	60,937	5,078		5,078
7	Jake Cartel	Treasurer		FT	HQ	May-09	147,000	12,250		12,250
8	Janice Thomas	Chief Financial Officer		FT	HQ	Mar-08	230,000	19,167	6,083	25,250
9	Karly Millers	Senior Accountant		PT	HQ	Sep-13	50,000	4,167		4,167
10	Michael Horak	Accounts Payable Specialist		FT	HQ	Aug-13	55,000	4,583		4,583
11	Paula Merkley	Chairman and CEO		FT	HQ	Jun-10	350,000	29,167	12,500	41,667
12	Rick Butler	Sr. Business System Analyst		FT	HQ	Oct-13	105,000	8,750		8,750
13	Samantha Pierce	Sr. Accounting Manager		FT	HQ	Nov-13	127,500	10,625		10,625
14	Stan Gardiner	President & COO		FT	HQ	Jan-14	250,000	20,833	8,333	29,167
15	TBH	Sales Controller	Y	FT	HQ	Mar-14	127,500	10,625		10,625
16	TBH	SOX	Y	FT	HQ	Oct-14	80,000	6,667		6,667
17	TBH	General Counsel	Y	FT	HQ	Jul-14	200,000	16,667		16,667
18	TBH	2015 Planning	Y	FT	HQ	Apr-15	90,000	7,500		7,500
19	TBH	2015 Planning	Y	FT	HQ	Oct-15	90,000	7,500		7,500

Source

- TM1_Webinar_Employee
  - RowNo-Emp
  - Cost Center
  - Version
  - Employee Info
    - Employee Name
    - New Hire
    - Business Title
    - Status
    - St
    - Location
    - Monthly Home Office Allowance
    - Hire Date
    - Hire Period
    - Term Period
    - Action
    - Current Annual Salary
    - Salary Effective Month
    - Annual Bonus Target
    - Monthly Salary
    - Monthly Bonus Accrual
    - Monthly Wages

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Special Offers

Solving Financial Reporting Challenges

Complimentary Consultation

- One-hour meeting with Senturus experts to discuss your challenges and potential solutions
- Possible recommendations:
  - TM1 reporting enhancements
  - BI/TM1 integration POC
  - GL mart
  - Upgrade/refresh platform or leverage another client interface

Contact Senturus at info@senturus.com or 888-601-6010

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NEW: Developing TM1 Cubes for Cognos BI Training

- May 20-21, 2015
- Learn to develop and deploy TM1 cubes to maximize reporting capabilities with Cognos BI
- Fully interactive course led by our IBM-certified experts with real world experience
- Register online: www.senturus.com/training

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Special Offer: $200 off TM1 Online Training

Coupon Code: TM1Cubes200

- First ten people to use it
- Expires April 25, 2015

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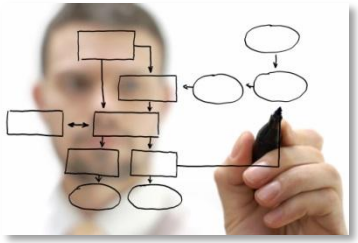
Senturus Introduction

Who we are

Senturus: Business Architects for Business Analytics

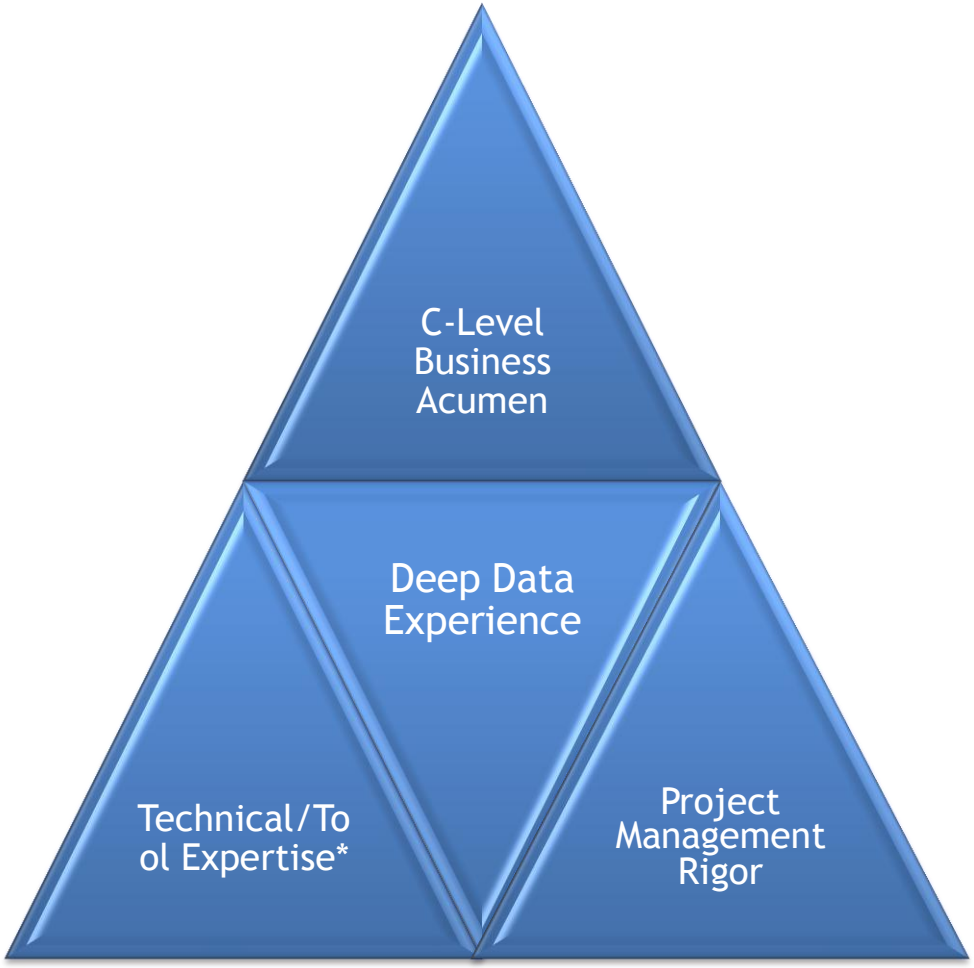
Technology Depth + Business Acumen



Business Intelligence

Enterprise Planning

Predictive Analytics



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A Few of Our 800+ Clients

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Additional Resources

Upcoming Events

www.senturus.com/events

INSTALLING COGNOS BI 10.2.2

TIPS FOR SUCCESSFUL MIGRATION

Thursday, April 30 - 11am PT/ 2pm ET - 60 min.

DETAILS

NOR CAL COGNOS USERS GROUP MEETING

MEETING IN REDWOOD CITY, CA

Thursday, May 7, 2015 - 9:30am - 2:00pm* PT -

DETAILS

DEMYSTIFYING IN-MEMORY TECHNOLOGIES

BEST USES AND COMPETITIVE ADVANTAGES FOR THE ENTERPRISE

Wednesday, May 13 - 11am PT/ 2pm ET - 60 minutes

DETAILS

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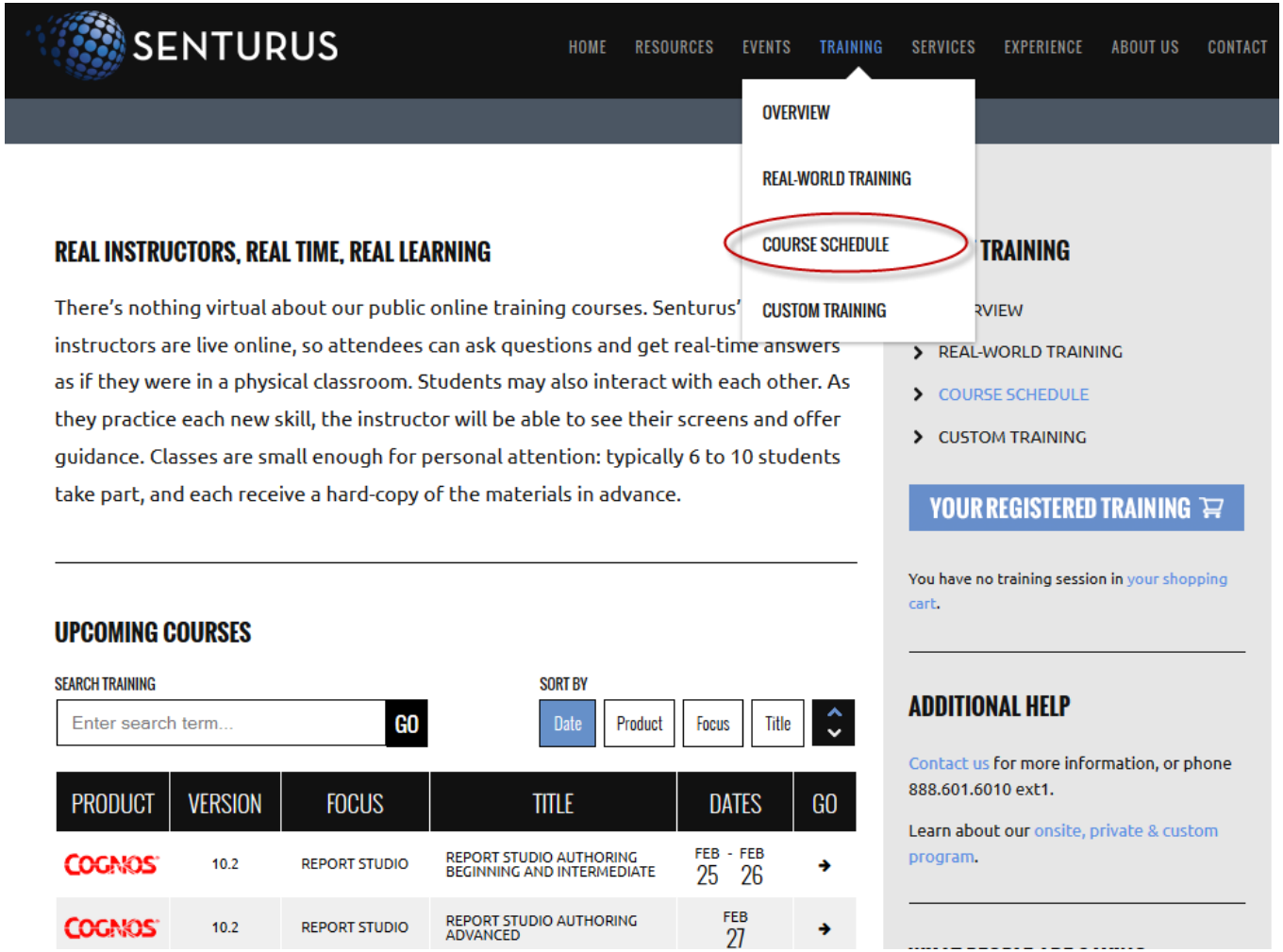
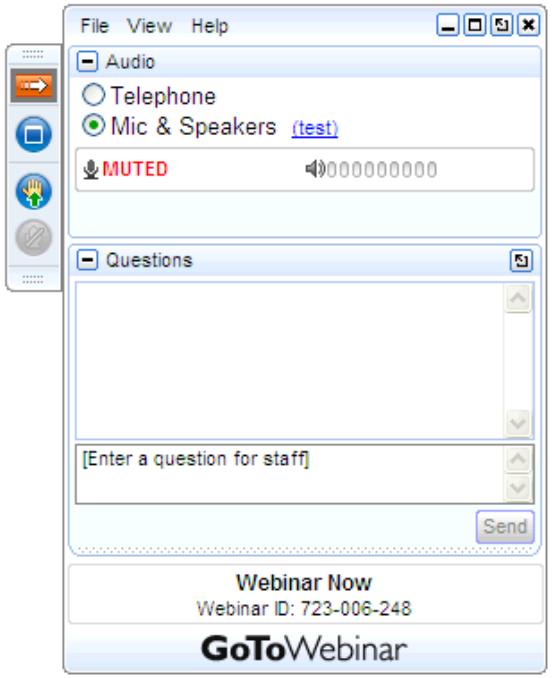
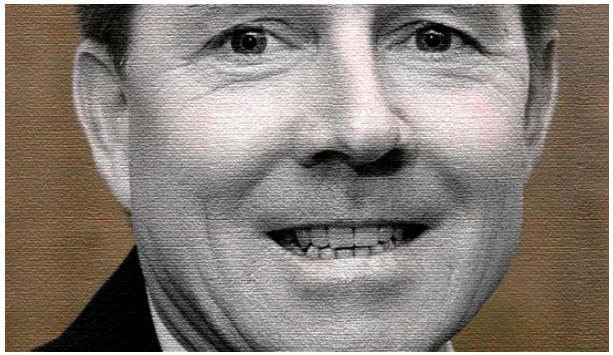
Cognos Training Options



Custom, tailored training also available

Q&A





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