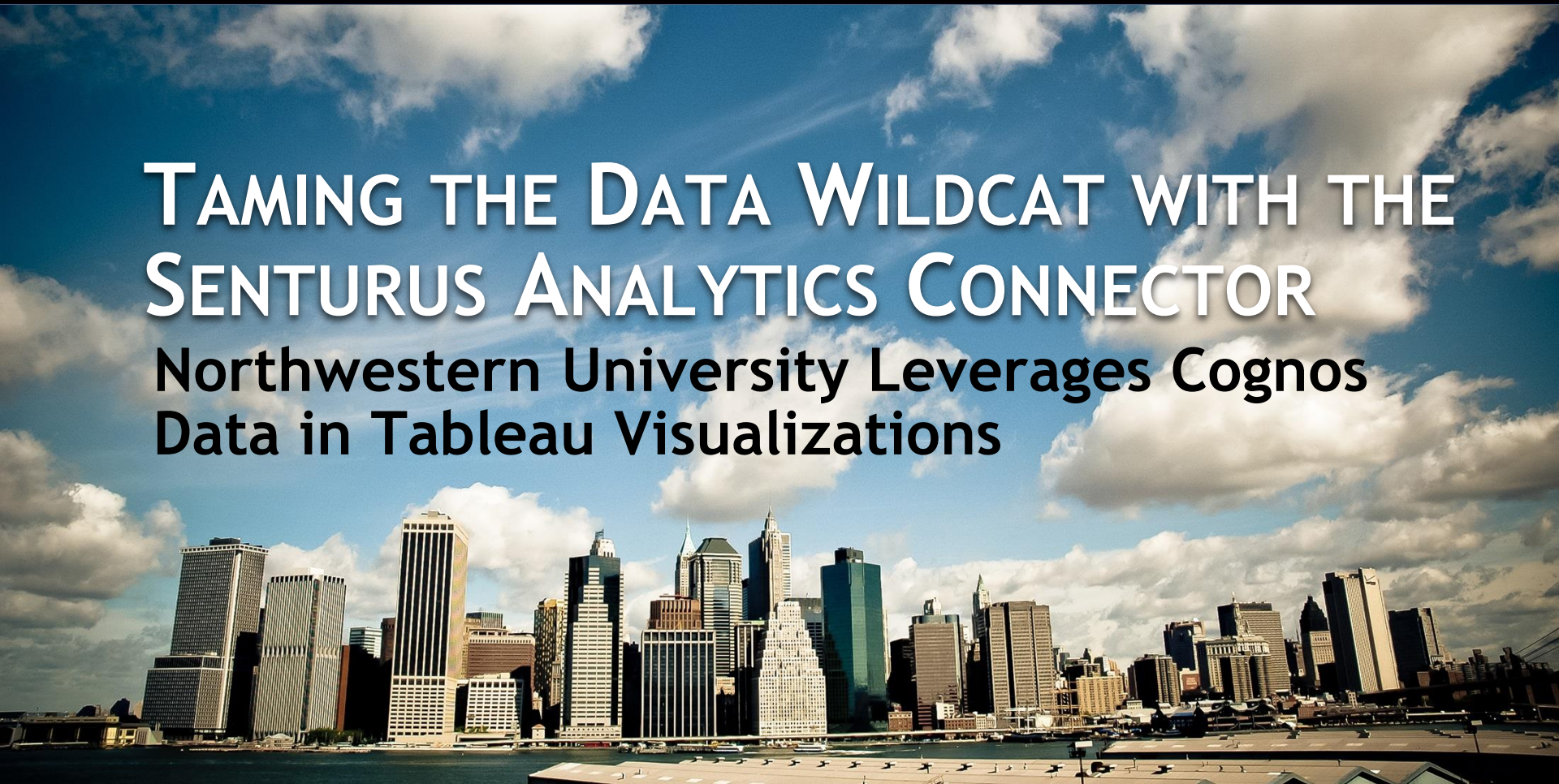




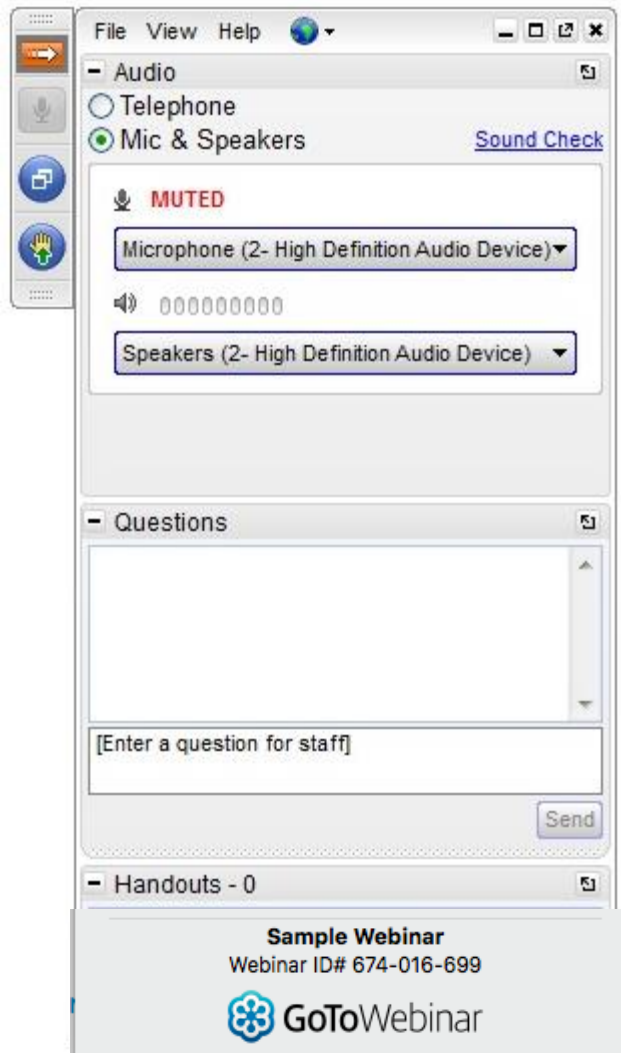
SENTURUS

TAMING THE DATA WILDCAT WITH THE SENTURUS ANALYTICS CONNECTOR

**Northwestern University Leverages Cognos
Data in Tableau Visualizations**



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Click arrow to restore full control panel



Submit questions here

Presentation Slide Deck

www.senturus.com/resources/

RESOURCE LIBRARY

Welcome to our extensive, free library of past webinars, demos, whitepapers, presentations and helpful hints. Use the topic boxes to the right to filter through and easily locate content. We are constantly adding new materials, so please check back often to see our latest content. Enjoy!

SEARCH RESOURCES

SORT BY





Popularity

Date

Title

Type

⬆
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⬆

RESOURCE TITLE	TYPE	GO
EMBEDDING TABLEAU IN SALESFORCE DASHBOARDS A How-To Primer with Demos	 TIPS & TRICKS	→
IBM COGNOS ANALYTICS RELEASE 7+ AUTHORIZING IMPROVEMENTS Demos of New and Reintroduced Features	 TIPS & TRICKS	→
TIPS FOR INSTALLING COGNOS ANALYTICS Configuring and Installing the Server	 TIPS & TRICKS	→
ADVANCED ANALYTICS IN TABLEAU: USE THE FORCE! Built-In Functions and 3rd Party Tools for Deeper Data Insights	 BUSINESS STRATEGY	→

Agenda

- Introductions
- Overview of Senturus Analytics Connector
- Senturus @ Northwestern
- Demo
- FAQs
- Senturus Overview
- Additional Resources
- Q&A

Introducing...Today's Presenters



Jeffrey Weiss, PhD
Director for Research Analysis
Feinberg School of Medicine
Northwestern University



Kimberly Griffin
Director for Electronic Research
Administration
Office for Sponsored Research
Northwestern University



Michael Weinbauer
Practice Area Director /
Solutions Architect
Senturus, Inc.



Willie the Wildcat

Poll

Why are you interested in the Senturus Analytics Connector?

- Leverage existing metadata business rules/security
- Eliminate export/import from Cognos/MSTR into Tableau
- Leverage for migrating from Cognos/MSTR to Tableau
- Leverage corporate data only accessible via Cognos/MSTR
- Other



OVERVIEW OF ANALYTICS CONNECTOR



Huge Value in Existing BI Models

Organizations have invested heavily in existing models that provide governed, secure, business-friendly, performant results

The screenshot displays the MicroStrategy Developer interface. The top window, titled 'Query Subject Definition - Sales', shows a 'Query Items and Calculations' pane with a list of items including Quantity, Unit Cost, Unit Price, Sales Profit, Unit Sale Price, Revenue, Product Cost, Gross Profit, Planned Revenue, Margin, Year, Quarter, Date, Weekday, Day of the Week, Branch Country, Branch State, Branch City, Branch Postal zone, Branch Organization, Order #, Order Method Type, Product Line, Product Type, Product Number, Product Color, Product Brand, Product Brand Type, Retailer Type, and Sales Staff Name. The bottom window, titled 'MicroStrategy Developer', shows a 'Folder List' on the left and a table of attributes on the right. The table lists attributes such as Age Range, Customer, Customer Address, Customer Age, Customer Birth Date, Customer City, Customer Country, Customer Email, Customer Gender, Customer Latitude, Customer Longitude, Customer Region, Customer State, Days to Ship, Education Level, First Order Date, Household Count, Housing Type, Income Bracket, Last Order Date, Marital Status, Order, Payment Method, Phone Plan, Phone Usage, Rush Order, Ship Date, Shipper, Status, and Zip Code, along with their types and modification times.

Name	Type	Modification Time	Descripti...
Age Range	Attribute	1/5/2009 6:43:41 AM	
Customer	Attribute	6/6/2010 1:06:40 PM	
Customer Address	Attribute	8/7/2007 4:02:33 AM	
Customer Age	Attribute	1/23/2012 6:28:56 AM	
Customer Birth Date	Attribute	8/7/2007 4:02:34 AM	
Customer City	Attribute	12/23/2008 7:25:11 AM	
Customer Country	Attribute	6/28/2006 10:45:23 AM	
Customer Email	Attribute	8/7/2007 5:17:31 AM	
Customer Gender	Attribute	1/5/2009 6:53:47 AM	
Customer Latitude	Attribute	7/9/2015 3:48:50 PM	
Customer Longitude	Attribute	7/10/2015 10:05:30 AM	
Customer Region	Attribute	1/5/2009 6:50:01 AM	
Customer State	Attribute	12/23/2008 7:25:28 AM	
Days to Ship	Attribute	2/27/2016 4:36:59 PM	
Education Level	Attribute	1/5/2009 6:52:29 AM	
First Order Date	Attribute	3/3/2009 6:17:13 PM	
Household Count	Attribute	10/30/2009 1:12:43 PM	
Housing Type	Attribute	1/5/2009 6:58:02 AM	
Income Bracket	Attribute	1/5/2009 6:57:53 AM	
Last Order Date	Attribute	3/3/2009 6:16:54 PM	
Marital Status	Attribute	1/5/2009 7:00:15 AM	
Order	Attribute	5/27/2016 6:13:22 PM	
Payment Method	Attribute	6/1/2009 6:26:27 AM	
Phone Plan	Attribute	1/5/2009 7:07:04 AM	
Phone Usage	Attribute	6/1/2009 8:19:24 AM	
Rush Order	Attribute	11/29/2010 6:45:38 AM	
Ship Date	Attribute	8/7/2007 4:02:40 AM	
Shipper	Attribute	12/23/2008 7:25:22 AM	
Status	Attribute	1/5/2009 6:51:07 AM	
Zip Code	Attribute	4/11/2016 5:19:09 PM	

BUT...Tableau Users Circumvent Them!

Using BI tools as ETL and/or recreating models in Tableau's data prep pane wastes time and compromises integrity

The screenshot shows the Tableau Desktop interface. At the top, the title bar reads "Tableau - Demo G0 Sales From Scratch". The menu bar includes File, Data, Server, Window, and Help. Below the menu bar, the main workspace displays a data model for "ORDER_DETAILS (gosales.ORDER_DETAILS)+ (GOSA...". The model shows a central "ORDER_DETAILS" table connected to "ORDER_HEADER" and "PRODUCT". "ORDER_HEADER" is further connected to "BRANCH", "ORDER_METHOD", and "RETAILER". "PRODUCT" is connected to "PRODUCT_TYPE", which is then connected to "PRODUCT_LINE".

On the left side, the "Server" section shows "PASDE". The "Database" section shows "GOSALES". The "Table" section lists various tables, including "ACTIVITY_STATUS...STATUS_LOOKUP", "BRANCH (gosales.BRANCH)", "CONVERSION_RAT...VERSION_RATE", "COUNTRY (gosales.COUNTRY)", "CURRENCY_LOOK...RENCY_LOOKUP", "DEPARTMENT_LO...TMENT_LOOKUP", "dtproperties", "EMPLOYEE (gosaleshr.EMPLOYEE)", "EMPLOYEE_EXPENS...EXPENSE_DETAIL", "EMPLOYEE_EXPEN...EXPENSE_PLAN", "EMPLOYEE_HISTO...LOYEE_HISTORY", "EMPLOYEE_SUMM...OYEE_SUMMARY", and "EMPLOYEE SURVE...URVEY RESULTS". Below the table list, there is a "Stored Procedures" section with "AssignStaff", "dt_addtosourcecontrol", and "dt_addtosourcecontrol...".

At the bottom, a data table is displayed with the following columns: Branch Code #, Address1, Address1 Mb, Address2, Address2 Mb, City, City Mb, Prov State, Prov State Mb, Postal Zone, and Country Code. The table contains 10 rows of data, showing details for branches in Los Angeles and São Paulo.

Branch Code #	Address1	Address1 Mb	Address2	Address2 Mb	City	City Mb	Prov State	Prov State Mb	Postal Zone	Country Code
21	1288 South Barrington Ave.	1288 South Barrington Ave.	null	null	Los Angeles	Los Angeles	California	California	90072	
21	1288 South Barrington Ave.	1288 South Barrington Ave.	null	null	Los Angeles	Los Angeles	California	California	90072	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	
30	Avenida Paulista, 333	Avenida Paulista, 333	CJ 231 2o. Andar	CJ 231 2o. Andar	São Paulo	São Paulo	SP	SP	01403-090	

Why You Shouldn't (Re)-Create Metadata



Time Consuming

- 100s or 1000s of tables to sift through
- Business users have little/no knowledge of key joins or join type



Compromises Data Integrity

- Multiple metadata layers cause change management nightmares
- Performance suffers as you add joins/data sources
- Limited audit trail, lineage, calculations or friendly table names
- Lack of data quality
- Incorrect data types
- Limited ability to restrict access to data by user security level



Compromises Data Security

- No ability to leverage robust security at enterprise BI layer
- Users rely on non-secure data extracts or waste time and create potential mistakes attempting to replicate existing security measures



Creates Data Silos

- Having no single source of the truth means numbers don't align across workbooks

The Solution? The Senturus Analytics Connector!

Tableau users can connect directly to the BI application layers, giving them instant access to high quality data

The screenshot shows the Tableau 'Connect' interface. On the left, a sidebar lists connection options: 'To a File' (Excel, Text file, Access, JSON file, Statistical file, More...) and 'To a Server' (Tableau Server, Microsoft SQL Server, MySQL, Oracle, Amazon Redshift, More...). Below this is 'Saved Data Sources' (Sample - Superstore, World Indicators). The main area displays a search bar and a list of data sources. The 'Other Databases (ODBC)' window is open, showing the 'Connect Using' section with 'DSN' selected and 'Cognos' chosen from the dropdown. The 'Driver' section shows 'Cognos ODBC Driver'. The 'Connection Attributes' section includes fields for 'Server', 'Port', 'Database' (Great Outdoors Sales (cube)), 'Username' (mweinbauer), and 'Password' (masked). A 'String Extras' text area is at the bottom. A 'Connect' button is visible.

This screenshot shows the 'Other Databases (ODBC)' window with 'mstr10' in the title bar. The 'Connect Using' section has 'Driver' selected, and 'Senturus Analytics Connector' is chosen from the dropdown. The 'Connection Attributes' section shows 'Server' as 'mstr10', 'Port' as an empty field, 'Database' as 'Tutorial', 'Username' as 'mstr', and 'Password' as an empty field. A 'String Extras' text area is at the bottom. A 'Connect' button is visible.

Instant Access to Quality Data Sets

The screenshot displays the Cognos Data Manager interface. On the left, a tree view shows the 'go_sales' data source expanded, revealing various tables and queries. Three arrows point from specific items in this tree to the configuration panels on the right: 'Sales (query)' points to the 'Database' panel, 'Sales' points to the 'Schema' panel, and 'Sales staff' points to the 'Table' panel.

The configuration panels on the right are as follows:

- Connections:** Shows 'Cognos (ODBC)' and 'Other Databases (ODBC)'.
- Database:** A dropdown menu showing 'GO Sales (query)'.
- Schema:** A dropdown menu showing 'Sales (query)'.
- Table:** A list of tables with search filters. The 'Exact' filter is selected. The list includes tables like '_CALCULATIONS_', 'Branch (Sales...query).Branch', 'Order (Sales (query).Order)', 'Order method...rder method)', 'Parameterize...ed Products', 'Products (Sal...ry).Products', 'Retailer type (...Retailer type)', 'Retailers (Sal...ry).Retailers', 'Sales (Sales (query).Sales)', 'Sales staff (Sa...y).Sales staff', 'Time (close da... (close date))', 'Time (Sales (query).Time)', 'Time (ship dat...e (ship date))', and 'New Custom SQL'.

Below the configuration panels, a diagram shows the 'Sales' data source connected to four dimensions: 'Branch', 'Order_method', 'Products', and 'Time_close_date_'. Each connection is represented by a circle with a blue dot.

Below the diagram, a table displays data. The table has five columns: '#', 'Branch', 'Address 1', 'Address 1 (multisc...', and 'Address 2 (multis...'. The first row shows 'Branch' under the '#' column and 'Branch' under the 'Branch' column. The second row shows '_LINK COLUMN (...)' under the '#' column and 'Address 1' under the 'Address 1' column. The third row shows 'Branch' under the '#' column and 'Branch' under the 'Branch' column. The fourth row shows 'Branch' under the '#' column and 'Branch' under the 'Branch' column. The fifth row shows 'Branch' under the '#' column and 'Branch' under the 'Branch' column.

At the bottom right, there are two buttons: 'Update Now' and 'Automatically Update'.

Instant Access to Quality Data Sets

The image displays two software interfaces side-by-side. On the left is the MicroStrategy Secure Enterprise interface, featuring a 'Folder List' on the left pane and a central table of data attributes. On the right is the Tableau 'Book1' interface, showing connection and schema configuration options and a list of available tables. Arrows indicate the mapping from folders in MicroStrategy to specific tables in Tableau.

MicroStrategy Secure Enterprise Folder List:

- Administration
- MicroStrategy Tutorial
 - History
 - My Personal Objects
 - Project Builder
 - Project Objects
 - Public Objects
 - AutoStyles
 - Consolidations
 - Custom Groups
 - Documents
 - Drill Maps
 - Filters
 - Metrics
 - Count Metrics
 - Count Base Formulae
 - Transformation
 - Customer Analysis Metrics
 - Human Resources Metrics
 - Inventory Metrics
 - Market Basket Analysis Metrics
 - Sales Metrics
 - Prompts
 - Reports
 - Searches
 - Templates
 - Schema Objects
 - Attributes
 - Customers
 - Geography
 - Products
 - Promotions
 - Time
 - Facts

MicroStrategy Data Attributes Table:

Name	Type
Age Range	Attribute
Customer	Attribute
Customer Address	Attribute
Customer Age	Attribute
Customer Birth Date	Attribute
Customer City	Attribute
Customer Country	Attribute
Customer Email	Attribute
Customer Gender	Attribute
Customer Latitude	Attribute
Customer Longitude	Attribute
Customer Region	Attribute
Customer State	Attribute
Days to Ship	Attribute
Education Level	Attribute
First Order Date	Attribute
Household Count	Attribute
Housing Type	Attribute
Income Bracket	Attribute
Last Order Date	Attribute
Marital Status	Attribute
Order	Attribute
Payment Method	Attribute
Phone Plan	Attribute
Phone Usage	Attribute
Rush Order	Attribute
Ship Date	Attribute
Shipper	Attribute
Status	Attribute
Zip Code	Attribute

Tableau - Book1 Interface:

Connections: mstr10 (Other Databases (ODBC))

Database: Tutorial

Schema: Select Schema

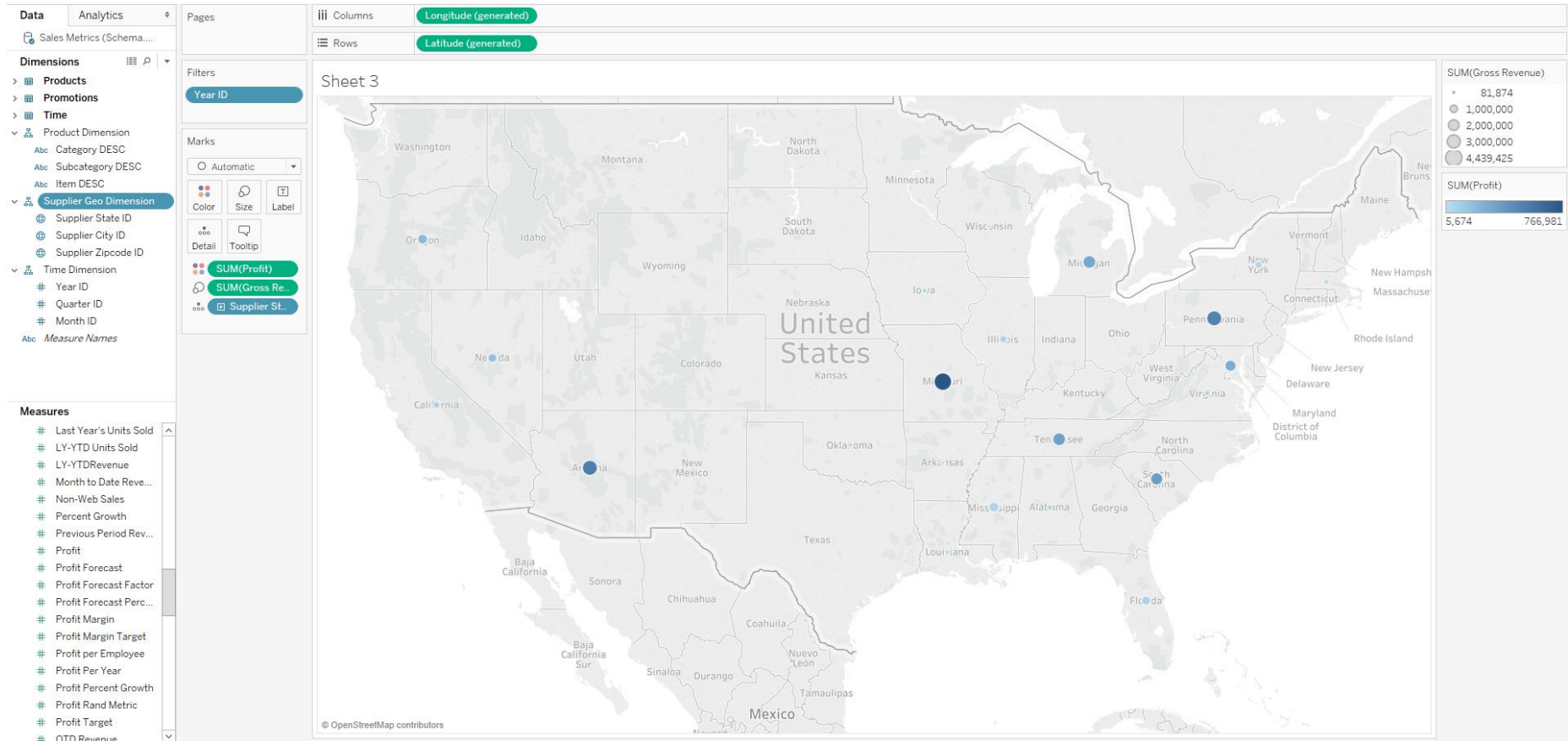
Table:

- Enter table name
- ☒ Exact ☐ Contains ☐ Starts with
- Count Metrics (Schema.Count Metrics)
- Customer Analysis Metrics...ustomer Analysis Metrics)
- Customers (Schema.Customers)
- Geography (Schema.Geography)
- Human Resources Metrics ...Human Resources Metrics)
- Inventory Metrics (Schema.Inventory Metrics)
- Market Basket Analysis Met...t Basket Analysis Metrics)
- Products (Schema.Products)
- Promotions (Schema.Promotions)
- Sales Metrics (Schema.Sales Metrics)
- Time (Schema.Time)
- New Custom SQL

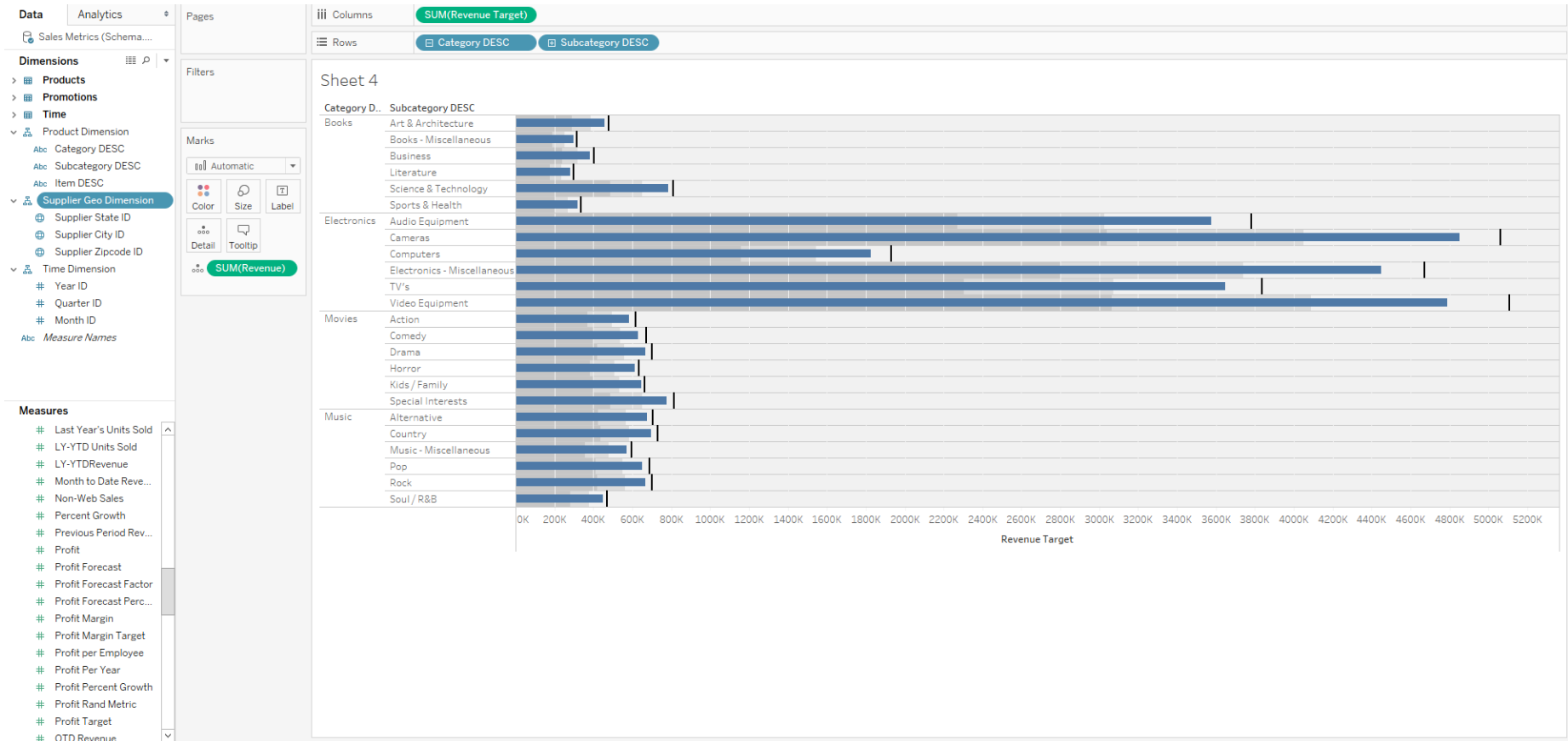
Arrows indicating data set access:

- From 'Customers' folder to 'Customers (Schema.Customers)' table.
- From 'Geography' folder to 'Geography (Schema.Geography)' table.
- From 'Products' folder to 'Products (Schema.Products)' table.
- From 'Sales Metrics' folder to 'Sales Metrics (Schema.Sales Metrics)' table.

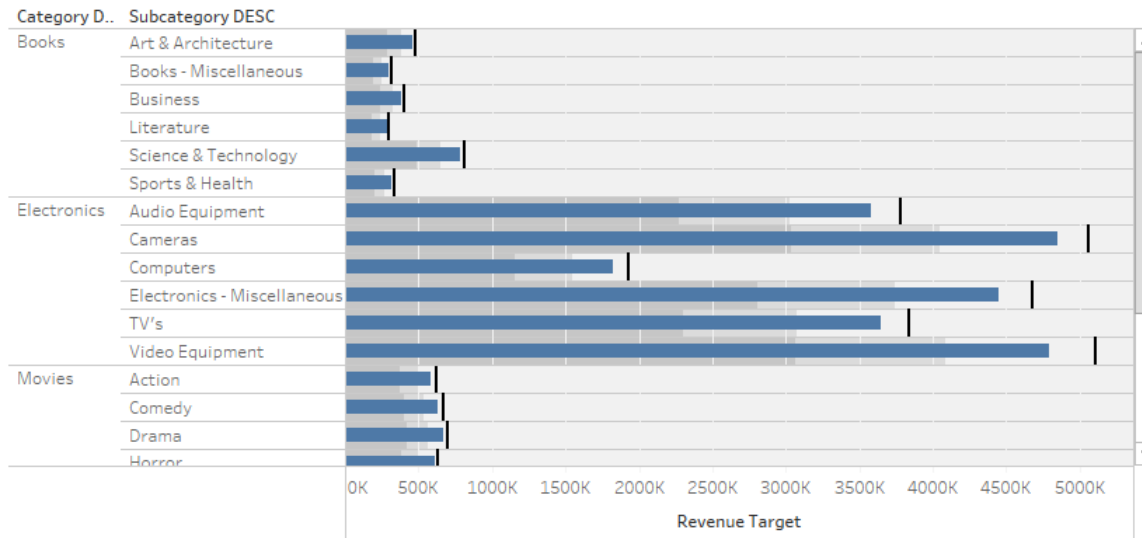
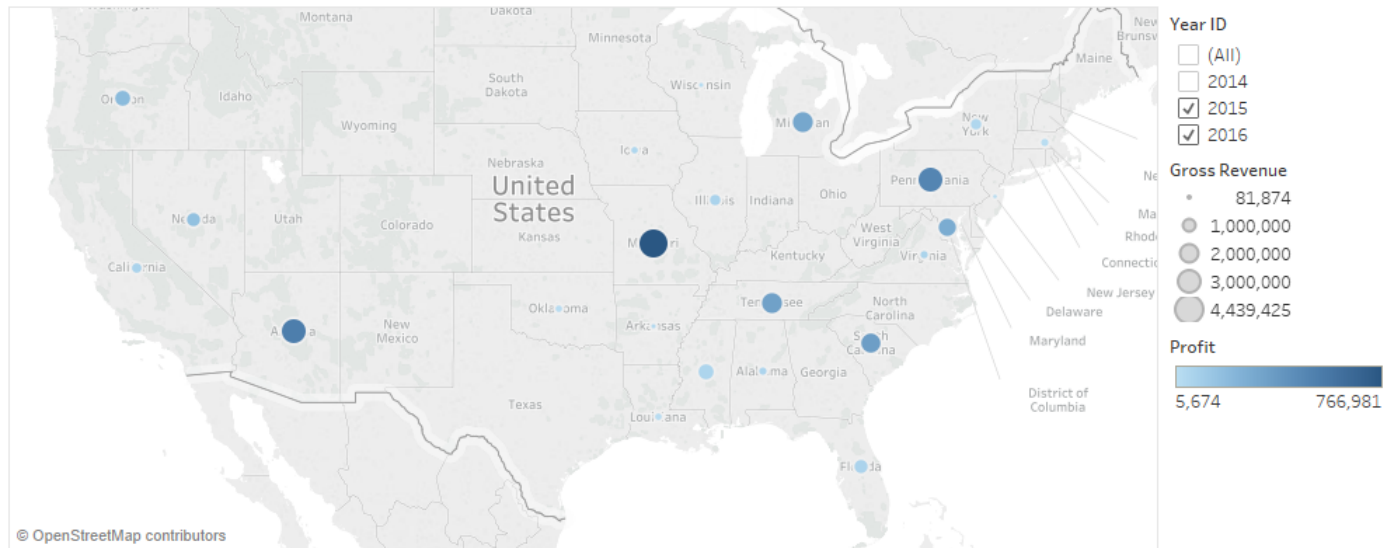
Instant Access to Quality Data Sets



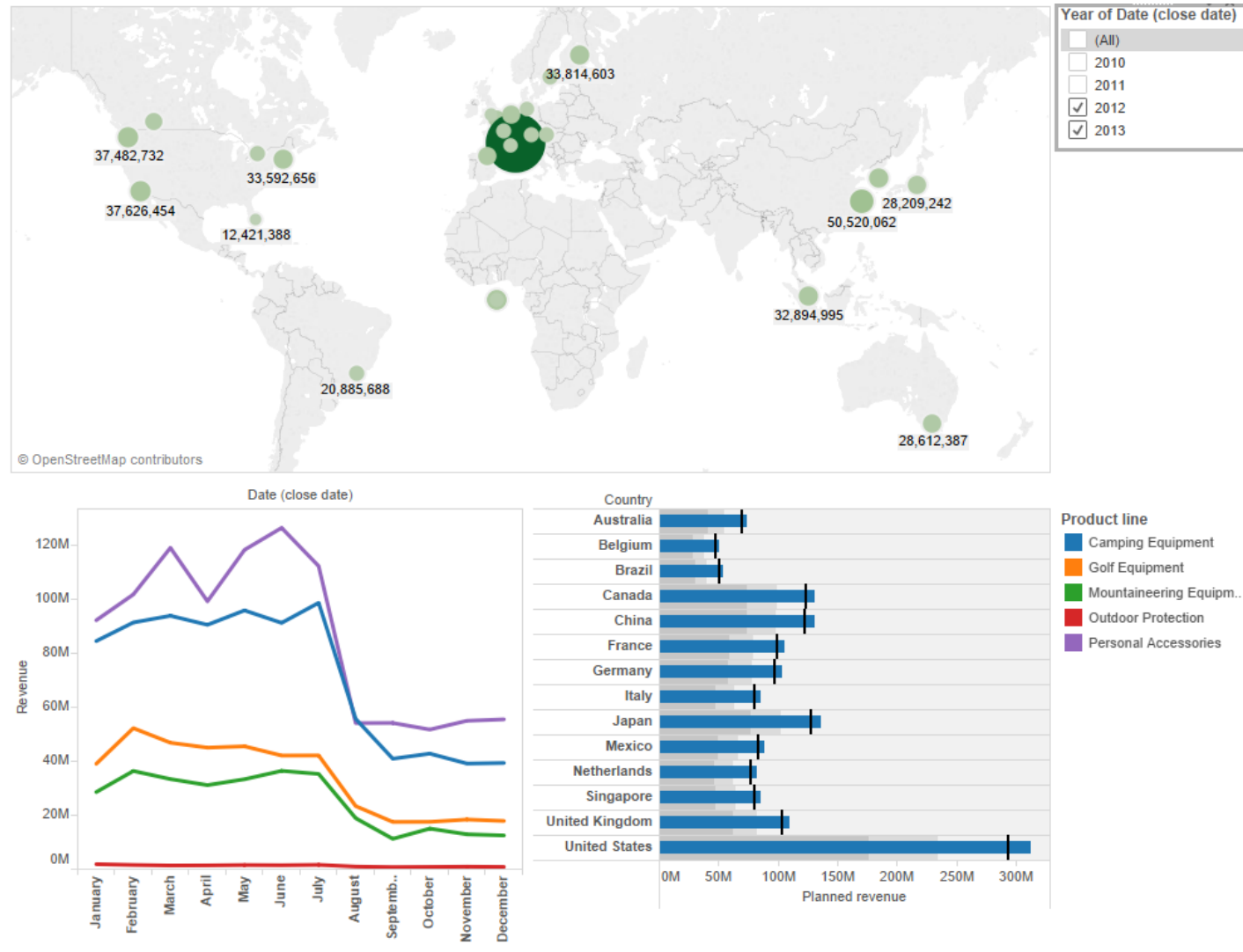
Instant Access to Quality Data Sets



Instant Access to Quality Data Sets



Don't Sacrifice Integrity for Agility!



The Senturus Analytics Connector Gives You



Faster, more accurate reporting

Tableau users spend less time in data prep and more time conducting real analysis. No need to remodel the data since Tableau can now access the rich semantic layers and business-friendly data in your enterprise BI system.



Reduces change management

Changes to the metadata layer are automatically picked up by the Connector, eliminating the need to chase down individually curated workbooks.



Trust in the data

Users access a “single version of the truth,” using data that is secure, auditable, compliant and governed.



Improves security

Eliminates redundant replication efforts, reduces risks associated with the use of non-secure data and allows appropriate guardrails to be set up around data access.



Superior Tableau performance

Poorly modeled data in Tableau can dramatically decrease performance. Data modeled in the enterprise BI platform has been optimized.

The Senturus Analytics Connector - What's New?



What's New?

- Support for TM1
- Support for MicroStrategy
- Custom join support
- Client-server support
- Local cache for metadata - improves performance
- Support for Cognos 10.2.0 and 11.0.6
- Support for multiple dispatchers and fail over
- 32 bit ODBC driver on Windows 64 bit OS
- Automatically install documentation with Connector
- DSN modification via Windows ODBC Administrator
- Improved troubleshooting via new batch script (diagnosis.bat)
- Configuration GUI
- Simplified installation process for Tableau Server - no post-installation file copying required
- Support silent installation
- Support IIS/Windows authentication
- Increased the length limit of character data types
- Support sort on min/max value of PowerCube and Dynamic Cube levels
- Support Top N in filter
- Support for SiteMinder SSO

About Northwestern

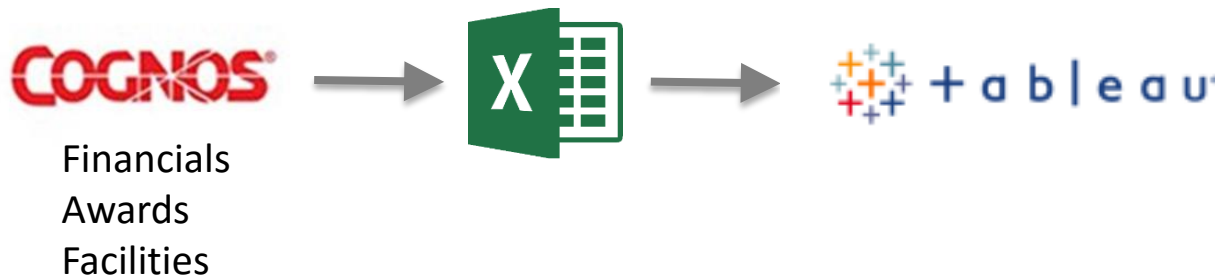


Northwestern has two campuses in the Chicagoland area, ~12 miles apart in Evanston and Chicago
In FY ©2018 the University received over \$675 million in sponsored awards

Northwestern - Past State

Manual, Slow, Error Prone, Stale

- Run Cognos queries and export to Excel
- Merge with local data from other sources using elaborate templates
- Merge data sources for Tableau visualizations
- Manually update data at defined intervals (weekly/monthly/quarterly)



Senturus @ Northwestern - Current State

Automated, Fast, Accurate, and Fresh!

- Senturus Analytics Connector allows Tableau reports to query data directly from Cognos
- Joins with local data done in Tableau; no more staging in Excel
- Time to update reports cut drastically



Business Value

- Senior leadership has **direct access to key performance metrics**
- Departmental administrators have **access to the underlying data** used to track their activity and progress
- Different administrative units (e.g. OSR and FSM) can base analyses on common data sets, **increasing consistency in reporting**

Technical Benefits

- Cognos **security is maintained automatically**, no additional work for the Tableau authors
- Cognos package **updates flow through without additional Tableau work**
- **Complicated business logic does not need to be reproduced in Tableau**, just pulled from existing verified Cognos packages



SENTURUS

DEMO

Summary

- (Re)-creation of metadata is slow, challenging and risky
- The Senturus Analytics Connector delivers agility *and* integrity
- Spend your time doing analysis, not prepping data that's already curated elsewhere

Frequently Asked Questions

Live vs. Extract

- Both methods are supported

Supported BI Platforms and Versions

- IBM Cognos 10.1.x/11.0.6 and higher
- MicroStrategy 10.2 and higher

Supported Data Sources

- Cognos - Relational, PowerCubes, DMR, Dynamic Cubes, TM1
- MicroStrategy - Relational and Intelligent Cubes
- Cognos and MicroStrategy Reports

Release Date

- The product was released on 11/7/16

Frequently Asked Questions

Supported Versions / Platforms

- Tableau 9.x/10.x
- Microsoft Windows operating system (Windows 7, 8, 10, Windows Server 2008 R2, 2012, 2012 R2)

Software Installation Location

- Wherever connectivity to Enterprise BI is required (Desktop or Server)
- Nothing installed on Cognos/MicroStrategy servers

Minimum Software Requirements

- Similar to those for any other typical ODBC driver

Cognos/MicroStrategy Environment Impact

- Tableau users leveraging the Connector will generate load on the Cognos/MicroStrategy servers similar to an interactive report user on those systems.

Frequently Asked Questions

Licensing / Pricing - Perpetual

DESKTOP Pricing Plan	SERVER Pricing Plan
Year 1 \$ 200 per user	Year 1 \$ 100 per user OR \$ 40,000 for 8 cores
Year 2 and beyond 25% of year one	Year 2 and beyond 25% of year one
Minimum Purchase: \$10,000 for Combined Desktop & Server	Minimum Purchase: \$10,000 for Combined Desktop & Server
Volume Discounts Provided	Volume Discounts Provided

Subscription pricing also available

- \$85/year desktop, \$45/year server

Frequently Asked Questions

Licensing Requirements - Cognos

- Extracts: Cognos BI analytics user or equivalent to allow extraction creation. Cognos license not required to connect to extracts, just Senturus Connector license
- Live Connect: Cognos BI analytics user or equivalent

Licensing Requirements - MicroStrategy

- Extracts: Project access and reporter role to allow creation of extracts. MicroStrategy license not required to connect to extracts, just Senturus Connector license
- Live Connect: Project access and reporter role required

Frequently Asked Questions

Security

- Enforces security applied within the Enterprise BI environment

Metadata Modeling Requirements

- No special modeling requirements for the Connector
- Tableau requires that joins are created between query subjects/attributes/metric views
- Supports Cognos CQM & DQM

Method for Accessing Tableau

- ODBC connection

Support

- Provided by Senturus and included in the price of the product

ROI for the Senturus Analytics Connector

- Time and money required to create metadata from scratch in Tableau - ranges from a few days to several weeks depending on the complexity of packages/projects
- Risk of not having proper data security (PII, HIPPA)
- Time saved converting reports to Tableau
- Time wasted by different analyst groups maintaining multiple metadata layers between Enterprise BI and Tableau
- Time wasted, cost and potential risk of having inaccurate/misaligned business metrics

Connector Test Drive

- Two week proof of concept
- Includes installation, configuration and testing in your environment

Register to request a test drive:

<http://www.senturus.com/enterprise-bi-connector-tableau/>





SENTURUS

WHO WE ARE

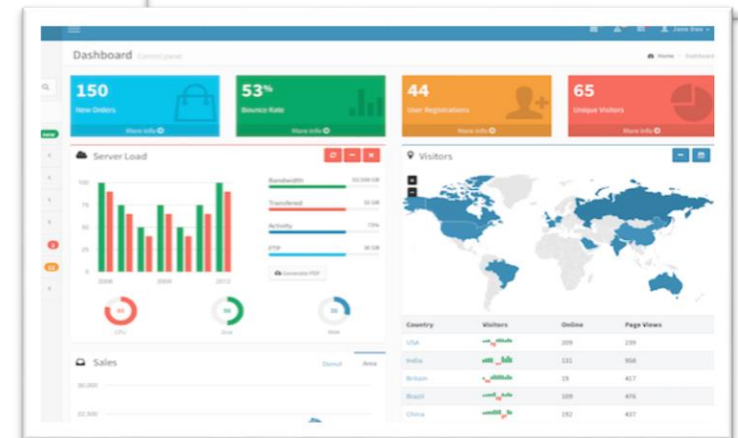
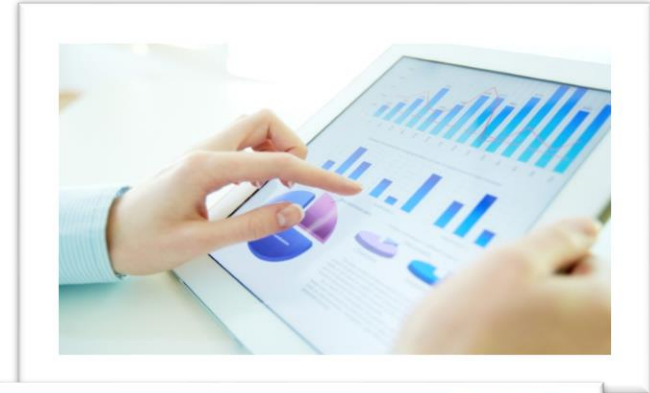
Business Analytics Consultants

Bridging the Gap Between Data & Decision Making



Business Analytics Architects

- Dashboards, Reporting & Visualizations
- Data Preparation & Modern Data Warehousing
- Self-Service Business Analytics
- Big Data & Advanced Analytics
- Planning & Forecasting Systems
- Proprietary Analytics Connector Software



1000+ Clients, 2000+ Projects, 17+ Years



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SENTURUS

ADDITIONAL RESOURCES

Upcoming Events www.senturus.com/events



TABLEAU LIKE A PRO IN HALF A DAY

HANDS-ON WORKSHOP IN SAN FRANCISCO

Wednesday, February 28, 2018 - 8:30am – 12:30pm - 4 hours



USING TABLEAU TO VISUALIZE SALESFORCE DATA

FREE, HANDS-ON WORKSHOP IN SAN FRANCISCO

Wednesday, February 28, 2018 - 12:30pm – 4:30pm - 4 hours

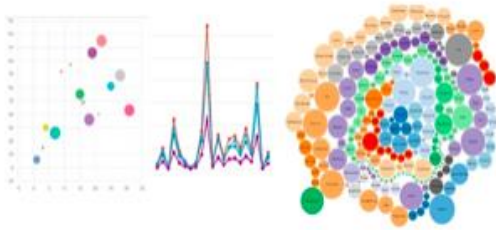


USING TABLEAU AND SALESFORCE TO IMPROVE SALES & MARKETING

MAKING RELEVANT DATA AVAILABLE TO YOUR TEAM

Thursday, March 1, 2018 - 11am PT (2pm ET) - 60 minutes

Upcoming Events www.senturus.com/events



INTRODUCTION TO COGNOS ANALYTICS V11

HANDS-ON WORKSHOP IN COSTA MESA, CA

Wednesday, March 7, 2018 - 10:00am – 2:30pm - 4 hours 30 minutes

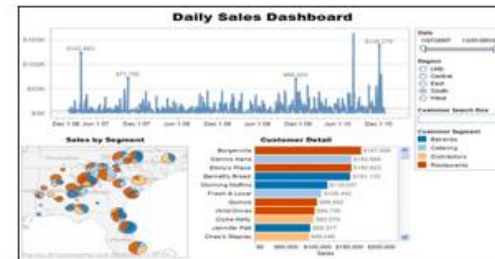


TABLEAU LIKE A PRO IN HALF A DAY

HANDS-ON WORKSHOP IN COSTA MESA, CA

Wednesday, March 7, 2018 - 8:30am – 12:30pm - 4 hours



USING TABLEAU TO VISUALIZE SALESFORCE DATA

FREE, HANDS-ON WORKSHOP IN COSTA MESA, CA

Wednesday, March 7, 2018 - 12:30pm – 4:30pm - 4 hours



THINK COCKTAILS WITH SENTURUS AT IBM THINK 2018

MEET US AT RI RA

Tuesday, March 20, 2018 - 6:30 pm – 9:30 pm - 3 Hours

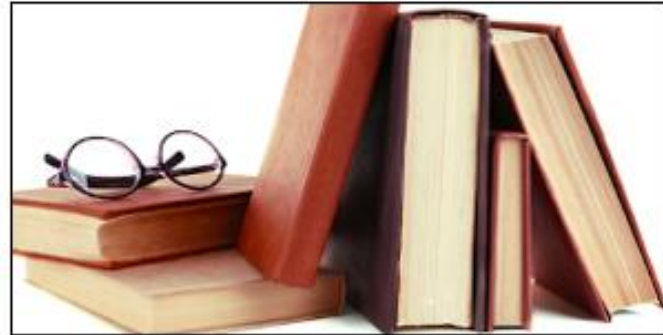
Visit Our Free Blog and Resource Library

<http://www.senturus.com/senturus-resources/>



BLOG

A great place to find out what's top of mind at Senturus.



RESOURCE LIBRARY

An extensive, free library of past webinars, demos, whitepapers, presentations, helpful hints and more.

Tableau and Cognos Training Options

SENTURUS HOME FOCUS EXPERIENCE RESOURCES **TRAINING** ABOUT US CONTACT

WHY SENTURUS TRAINING

COURSE SCHEDULE

CUSTOM TRAINING

CHOOSING A COGNOS CLASS

CHOOSING A TABLEAU CLASS

LOGISTICS AND FAQ

PUBLIC VIRTUAL CLASSROOM

These live, online training courses are taught by real-life subject matter experts and include hands-on exercises and time for Q&A.

We offer Cognos Analytics courses to reflect valuable new features through Release 7 and Tableau updated for 10.

UPCOMING COURSES

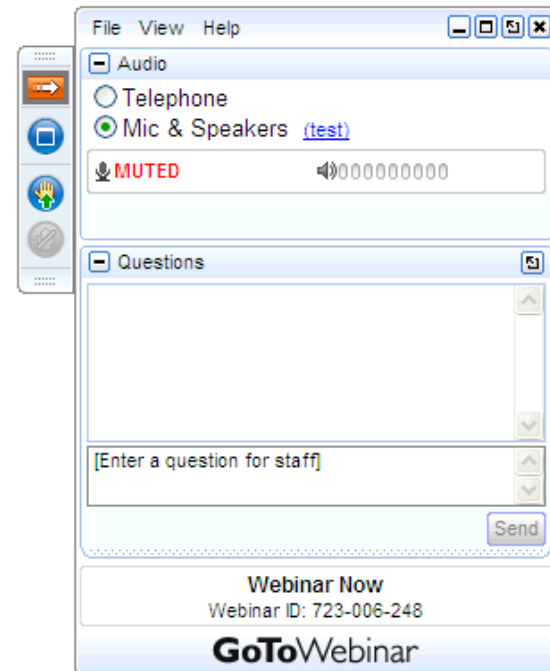
PLATFORM	VERSION	TOOL	TITLE	DATE	GO
IBM COGNOS	10.2.2	CAFE	CAFE FOR BUSINESS USERS	MAR 13	→
IBM COGNOS	11.0.7	FRAMEWORK MANAGER	METADATA MODELING BEST PRACTICES	MAR 13 - MAR 15	→
TABLEAU	10	DESKTOP	INTERMEDIATE DATA VISUALIZATION AND DASHBOARDING	MAR 16	→
TABLEAU	10	DESKTOP	EXPERT TABLEAU DEVELOPMENT	MAR 23	→

Q&A

If your question or issue is broader than what can be answered today, contact us at

info@senturus.com

and we will set up a free consultation.



Thank You!

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