Senturus Analytics Connector User Guide Cognos to Tableau

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Overview

This guide describes how the Senturus Analytics Connector is used from Tableau after it has been configured.

Please refer to the Installation Guide for instructions on installing and configuring the Analytics Connector.

The Analytics Connector has been tested against different versions of Tableau, including both Tableau Desktop and Tableau Server on Windows from version 9.3 to the latest 2018.3.

Connecting to Cognos from Tableau

You can use a pre-configured ODBC DSN or the Analytics Connector ODBC driver directly to connect Tableau to a Cognos data source.

Connect	Search		
	Tableau Server	MarkLogic	Web Data Connector
Microsoft Excel	Actian Matrix	MemSQL	
Text file	Actian Vector	Microsoft Analysis Services	Other Databases (ODBC)
JSON file	Amazon Athena	Microsoft PowerPivot	
Microsoft Access	Amazon Aurora	Microsoft SQL Server	
PDF file	Amazon EMR Hadoop Hive	MonetDB	
Spatial file	Amazon Redshift	MongoDB BI Connector	
Statistical file	Anaplan	MySQL	
More	Apache Drill	OData	
	Aster Database	OneDrive	
	Box	Oracle	
Tableau Server	Cisco Information Server	Oracle Eloqua	
Amazon Redshift	Cloudera Hadoop	Oracle Essbase	
Salesforce	Denodo	Pivotal Greenplum Database	
Microsoft SQL Server	Dropbox	PostgreSQL	
Other Databases (ODBC)	EXASOL	Presto	
More	Firebird	Progress OpenEdge	
More /	Google Analytics	Salesforce	

To begin, select the Other Databases (ODBC) option under To a Server.

Use Driver

To use the driver directly, select the radio button next to **Driver**, select *Senturus Analytics Connector* from the list, then click **Connect**.

Other D	atabases (ODBC)	
Connect Usin	g	
	C requires additional configuration for publishing to succeet) for cross-platform portability. A DSN with the same name erver.	
O DSN:		Ŧ
Oriver:	Senturus Analytics Connector	•
	Connect	

Enter your server name or IP, Port number, User Name and Password.

Click Load to load a list of configured databases the user has access to on the specified server.

Senturus Analytics Connector	×
Please supply any missing information require	ed to connect.
<u>S</u> erver: localhost	<u>P</u> ort: 5432
User Name: administrator	Pass <u>w</u> ord: ••••••••••••
Data <u>b</u> ase:	Load
	OK Cancel

Select a Database from the loaded list, then click **OK**.

Server:	localhost Port: 5432
Database:	GO Sales (query)
Username:	administrator
Password:	•••••
	SSLmode=disable;ReadOnly=0;Protocol=7.4;FakeOidIndex=0;Sh owOidColumn=0;RowVersioning=0;ShowSystemTables=0;Fetch= 00;UnknownSisse=0;MaxVendSize=25SMaxLongVarcharSize =3190;Debug=0;CommLog=0;UseDedarFetch=0;TextAsLongVa rchar=11UhnownSidsLongVard=0:BloolSicAfor=11Parse=0;Ex

Click **Sign In** to complete the connection. You will then see the Tableau Data Source tab for this connection.

Through a DSN

If you prefer to configure and use a DSN, select the radio button next to **DSN**, select the name of the configured DSN from the list, then click **Connect**.

Connect Usin]	
source name) on Tableau Se		
OSN:	Senturus Colo .45	*

If you did not save the username and/or password in the DSN, you will be prompted for it. The Server and Port will be read only.

Senturus Analytics Co	onnector		×
Please supply any mis	ssing information require	ed to connect.	
<u>S</u> erver: localho	ist	<u>P</u> ort: 5432	
User Name: adminis	strator	Pass <u>w</u> ord:	
Data <u>b</u> ase: GO Sa	les (query) 🗸 🗸	Load	
	Supply pa	assword	
			OK Cancel

Click **Sign In** to complete the connection.

You will then see the Tableau Data Source tab for this connection.

Password:	•••••	
String Extras:	NAMESPACE=Senturus	
		Sign In

Working with Tables

After connecting successfully, the database, schema and tables will show on the Data Source tab.

Schema	
Sales (query)	•
Table	
Enter table name	+ م
● Exact ○ Contains	 Starts with

The full list of schemas and tables appears in the **Table** section. To filter the list, type letters of your desired schemas/tables into the search field.

If you are using version 2020.2 or newer, Tableau Desktop will create a logical table when you add a database table to the canvas and will let you define relationships between logical tables. But in most cases, you want to use Cognos built-in relationships. Click on the drown down array and select "Open..."





Then drag or double click the more tables into the canvas.

$* \leftarrow \rightarrow \square \odot$	⊖- Sa	les (Sales (qu	ery േ	onnection Live O	Extract	Filters O Add
Connections Add						
Cognos_Senturus Other Databases (ODBC)	Sales			Branch		
Database						
Select Database 👻				Products		
		Join				×
Schema						
Sales (query) 🔻		Inner	Left		Right	Full Outer
Table		Data Sour	ie in the second se		Pro	ducts
Enter table name 🛛 🔎 🕂	🖽 🔳 Sor	Aaa Link		=	AAA LINK (Products)	/s
Exact O Contains O Starts with	#	Add new join clause				
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Branch (Salesuery).Branch)	AAA LINK (B	-				••
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Products (Salry).Products)						
Retailer type (Retailer type)						
Retailers (Salry).Retailers)			Upda	te Now		
I Sales (Sales (query).Sales)						
Ⅲ Sales staff (Sa…y).Sales staff)			Automatio	cally Update		
Time (close da (close date))						
Time (Sales (query).Time)						

Link Columns

Tableau requires joins between the tables in a data source, but link columns are usually not available in the schemas converted from Cognos packages. To resolve this limitation, the Analytics Connector creates a link column on each table named *AAA_LINK* or *_LINK_COLUMN_*. The link column name can be changed using the Configuration Utility.

Tableau will automatically join the tables using the link columns, but the ODBC driver will ignore them when passing the queries to Cognos.

Data Source Best Practices

- Unless absolutely needed, always use joins (joined by dummy link columns) in a single logical table. If your Cognos model missed a relationship, you may define a join using columns other than link columns. Or if you have a multi-fact, multi-grain data, you may add two logical tables and create relationship using columns other than link columns.
- Always add fact table(s) first in logical tables.

- Do NOT click **Update Now** on the Data Source tab or you will trigger a large query that will take a very long time to run.
- Leave the connection set to **Live** so that queries are passed to Cognos for execution under the authenticated user.
- You can add Filters using the Filters Add feature in the top right corner of the widow. Appropriate filters can improve

⊖- Sales (Sales (query	Connection	○ Extract	Filters 0 Add

query performance when designing the visualizations.

• If you have duplicate columns configured in a package, the table containing the duplicated column will be marked as "(invalid)" and will be unusable in your data source. You will need to correct your Cognos model to resolve a duplicate column issue. Review the java.log file found at {Analytics Connector Install Folder} \ Log for the name of the duplicated column.

Table			
Enter table name	3		4 م
 Exact 	O Contains	O Starts with	
I Products (ro	ot.Products)		
🔢 Query Subje	ct <mark>(invalid)</mark> (root.Quer	y Subject <mark>(invalid))</mark>	
🗄 New Custom	SQL		

Design Visualizations

To begin designing your visualization, change to the **Sheet** tab (typically named "Sheet 1") When you switch from the **Data Source** tab to the **Sheet** tab, the below warning may appear.

Tableau identified limitations for the ODBC data source							
This ODBC driver does not support all the capabilities used by Tableau. While many capabilities are available, you may want to create a Tableau data extract for complete functionality.							
OK Show Details							
☑ Do not show again for this data source							

Tableau uses several special features to optimize queries, but the Analytics Connector and Cognos do not support all of them. This dialog box is only a warning and your workbook will function correctly.

To prevent this pop up from appearing again, check *Do not show again for this data source*, then click **OK**.

You are now able to design your visualization using the Cognos Dimensions and Measures in Tableau.

Working with Custom Joins

As mentioned previously, Tableau will automatically join on the link columns the Analytics Connector creates. Usually, you will not want to change these joins because you want to leverage the underlying Cognos relationships. However, you can create custom joins to build Tableau models that your Cognos implementation does not include.



Using the example shown above, you can change the automatic join between *Products* and *Products1* to a full outer join on the "Product Number" column. This type of custom join will be honored by the Analytics Connector.



Additionally, the Analytics Connector will split the five tables into two sub queries. The first sub query contains *Sales_target* and *Products* and the second sub query has *Products1, Sales* and *Time*. The results of the two sub queries will be joined together by the Product Number column.

Working with Calculations

The Analytics Connector supports working with Cognos Calculations in Tableau.

Calculations in Cognos come across in a special table named AAA_CALCULATIONS or __CALCULATIONS_ under the appropriate schema. The calculations table name can be changed using the **Configuration Utility**.

The table will also contain a link column. The special calculation table is joined to other tables using the link column like any other table in the data source.

⊡ Sales (Sales)	(query).Sales) (GO Sales (quer
Sales	

Working with Parameterized Tables

The Analytics Connector supports working with Cognos parameterized tables in Tableau. To use a parameterized table in a Tableau workbook and pass parameter values, use the Tableau **New Custom SQL** feature.

To begin, select a Database then double click **New Custom SQL** to launch the **Edit Custom SQL** window. Enter the SQL to execute.

Connections	Add		
Cognos_Senturus Other Databases (ODBC)			
Database			~
Select Database	Edit Custom SQL		×
Schema			
Select Schema			
Table			-
Enter table name			
Exact Conta	3		
AAA_CALCULATIONS (Filter			
AAA_CALCULATIONS (Sales			
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📰 Branch (Inventory (query).Br	a de la companya de l		
📰 Branch (Product forecast (qu			
🔢 Branch (Sales (query).Branc			
🔢 Briefing Book (Sample Repor	t		
🔢 Horizontal Pagination (Samp			
Inventory (Inventory (query).	Preview Results Insert Parameter 🔻	OK	Cancel
🔢 No Data (Sample Reports.No	Data)		
🔢 Order (Returned items (quer	/).Order)		
Order (Sales (query).Order)			
🔢 Order Invoices - Donald Chov	Donald Chow, Sales Person)		
—			
New Custom SQL			
Data Source Sheet 1	· ==+ ==		

Using the OpenTable function, you can pass parameters to a parameterized Cognos table.

Example passing static valued parameters:

```
OpenTable(

"Sales (query)"."Parameterized Products",

"p_product line code"="[991, 992, 993, 994, 995]",

"p_Product Line"=" 'Golf Equipment'",

"p_Date"="{d '2010-01-01'}",

"p_Datetime"="'2010-01-01 19:00:00'"

)
```

Click **Preview Results...** to run the query. The results will display in a new window.

Edit Custom SQL

```
ere
OpenTable(
  "Sales (query)"."Parameterized Products",
  "p product line code"="[991, 992, 993, 994, 995]",
  "p Product Line"=" 'Golf Equipment'",
  "p Date"="{d '2010-01-01'}",
  "p Datetime"="'2010-01-01 19:00:00'"
)
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                                           12/27/2009 12:00:00 AM Course Pro Gloves
                        Null
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                        Null
                                           12/10/2009 12:00:00 AM Course Pro Putter
                        Null
                                           12/10/2009 12:00:00 AM Lady Hailstorm Steel Irons
                                                                                              Hailstorm
                                           12/27/2009 12:00:00 AM Hailstorm Titanium Woods Set
                                                                                              Hailstorm
                        Null
                        Null
                                           12/10/2009 12:00:00 AM Hailstorm Titanium Irons
                                                                                              Hailstorm
 Preview Results...
                        Null
                                           12/18/2009 12:00:00 AM Lady Hailstorm Titanium Irons
                                                                                              Hailstorm
```

×

The first parameter is *"[schema name]"."[table name]*" of the Cognos parameterized table. This is followed by zero or more Cognos parameter name-value pairs separated by commas.

Optionally, replace the static values with Tableau parameters to create dynamic values.

For example:

- Highlight the date static value.
- Select the Insert Parameter button, then Create a New Parameter.
- Define the Tableau date parameter and click OK.

It is important that you select the correct Data type for the parameter or the SQL may error.

Edit Custom SQL			×	:
"p_product "p_Product "p_Date"="	line code"= Line"=" 'Go {d '2010-01-	eterized Products", "[991, 992, 993, 994, 995]", lf Equipment'", <mark>01')</mark> ", -01 19:00:00'"		-ere
)				
	Create Parameter			×
	Name: My Date		(Comment >>
	Properties			
	Data type:	Date 💌		
	Current value:	1/1/2010		
	Display format:	2010-01-01 ~		
	Allowable values:	● All ○ List ○ Range		
Preview Results			OK	Cancel

The Tableau parameter can then be shown on the visualization or dashboard for user interaction.

Dim	ensions	<u>ب</u> م	Filters			My Date
to,	Discontinued date		Filters	Sheet	t 1	-
Ë.	Introduction date					1/1/2010
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Abc	Product brand		Marks			
Abc	Product color		WIDEN'S			
Abc	Product description		T Automatic 🔻			
Abc	Product image					
Abc	Product line		Add to Sheet			
Abc	Product size		Show Parameter Control			
Abc	Product type		Cut			
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Mea	asures		Edit			
#	AAA_LINK		Duplicate	Drop		
#	Base product numbe		Rename	field	Drop field here	
#	Product brand code		Hide	here		
#	Product color code		Delete			
#	Product line code					
#	Product number		Create •			
#	Product size code		Default Properties			
#	Product type code					
=#	Number of Records		Folders •			
#	Measure Values		Replace References			
Par	ameters		Describe			
₿	My Date	-				

You can use more than one OpenTable function in a Tableau query, as long as each one is contained in individual Custom SQL object. Like other tables, they are joined using the generated Link Columns which are then ignored at execution time.

You can also mix parameterized tables with other tables in one Tableau data source. These tables will also join using the generated Link Columns. Example advanced query:

Select "Products"."Product line", "Products"."Product type", Sum("Sales"."Revenue") as "Revenue" From OpenTable("Sales (query)"."Parameterized Products", "p_product line code"="[991, 992, 993, 994, 995]", "p_Product Line"=" 'Golf Equipment'", "p_Date"="{d '2010-01-01'}", "p_Datetime"="'2010-01-01 19:00:00'') as "Products" join "Sales (query)"."Sales" as "Sales" on ("Products"."AAA_LINK" = "Sales"."AAA_LINK") Group by "Products"."Product line"

Working with Reports

The Analytics Connector supports working with Cognos Reports in Tableau.

To use a Report in a Tableau workbook and pass parameter values, use the Tableau **New Custom SQL** feature.

To begin, select a Database then double click **New Custom SQL**. Enter the SQL to execute.

Connections								Add				
Cognos_Senturu Other Databases (OD)												
Database		Г										
Select Database			Edit C	ustom S	QL					 		×
Schema												
Select Schema												
Table												
Enter table name												
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AAA_CALCULA	TIONS (Fi	ter										
AAA_CALCULA	TIONS (Sa	ales										
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Order Invoices	- Donald C	how	Don	ald Chov	v, Sa	ales Pe	rson)					
Rew Custom So	QL											
Data Source	Sheet 1	<u>.</u>	₽.	Ŭ ∔								

Using the RunReport function, you can pass parameters to a Cognos Report.

Example passing static valued parameters:

```
RunReport (

"Connector Reports"."Parameter Report",

"p_product line code"="[991,992,993,994,995]",

"p_Product Line"="'Golf Equipment'",

"p_Category"="['Books', 'Electronics', 'Movies']",

"p_Date"="{d '2010-01-01'}",

"p_Datetime"="2010-02-01 19:00:00"

)
```

Clicking the **Preview Results...** button will run the query and display the results in a new window.



The first parameter is "[schema name]"."[table name]" of the Cognos Report. This is followed by zero or more Cognos parameter name-value pairs separated by commas.

Optionally, replace the static values with Tableau parameters to create dynamic values.

Example:

- Highlight the date static value.
- Click the Insert Parameter button, then Create a New Parameter.
- Define the Tableau date parameter and click OK.

It is important that you select the correct Data type for the parameter or the SQL may error.

Edit Custom SQL		×	
RunReport ("Connector Reports"." "p_product line code" "p_Product Line"="'Go "p_Date"="[d '2010-01 "p_Datetime"="2010-02-)	"[991,992,993,994,995]", f Equipment'", 01']",		
		w hidd	len fields
	Create Parameter		×
	Name: My Date		Comment >>
	Properties Data type: Date		
	Current value: 1/1/2010		
	Display format: 2010-01-01 V		
Preview Results Insert Parameter	Allowable values:		
			OK Cancel

The Tableau parameter can then be shown on the visualization or dashboard for user interaction.

Custom_SQL_Query (G		⊞ Rows	
Dimensions IIII 𝒫 Abc Product line Abc Product type Abc Measure Names	Filters	Sheet 1 Drop field here	My Date 1/1/2010
Measures # Product line code # Product type code # Revenue # Year -# Number of Records # Measure Values	Marks T Automatic Color Size Text Color Color Tooltip	Drop field Drop field here here	
Parameters	Add to Sheet Show Parameter Control		
🖯 Data Source She	Cut Copy		

Technical Reference

Function Syntax

<u>Syntax</u>

Both OpenTable and RunReport function adopt following syntax: OpenTable ("Schema Name"."Table Name"(, "Parameter"="value", ...))

The first parameter is a table identifier, using standard SQL syntax. All identifiers are case insensitive and the schema name can be omitted if the table name is unique cross schemas.

The second, if any, and following parameters are name-value pairs, separated by commas. Name and values should be surrounded by double quotation marks.

Parameters

Use parameter name in place of "Parameter" for the Cognos connector.

Values

All values should follow SQL/ODBC standard.

Only plain string representation is allowed for numeric values. Formatted representations such as **1,200.00** with thousand separators, **(15)** for -15, or **50%** for .5 are not supported.

For string values, single quotation marks are used around the value. For example, 'Golf Equipment' or 'Sam''s Club'.

For date/time/timestamp values, use the ODBC standard format. For example {d '2010-01-01'} or ISO 8601 standard format, 'YYYY-MM-DD' for date, 'hh:mm:ss' for time and 'YYYY-MM-DD hh:mm:ss' for timestamp.

An array of values is passed using brackets. For example:

• "product line code"="[991,992,993,994,995]"

The syntax for a Range parameters is represented by a 2 element array. For example:

- "YearRange"="[,2019]" All years less than or equal to 2019
- "YearRange"="[2015,]" All years greater than or equal to 2015
- "YearRange"="[2015,2019]" Years between 2015 and 2019

Character escaping

Certain characters must be escaped.

For single quotes within a string value, use two single quotes to escape a single quote inside the string.

Double quotes in parameter name and values need to be escaped with two double quotes.

Passing multiple values to a parameter

A Cognos parameter may accept multiple values, for example [Product line code] in (?p_Product line code?). To specify multiple values in your function, put multiple values in a pair of square brackets ([]) and separate each value by a comma (,) just like CSV format.

Using Tableau parameters

You can use Tableau parameters in place of literal values but take the following notes:

- Tableau will replace the parameter name with a formatted string when executing a string. For example, Tableau will put single quotes around string values, escape single quotes with two single quotes in string values, and format date value using ODBC format. You do not need to "format" them in a function call.
- Tableau will not escape double quotes, so you need to escape them when you provide values to Tableau parameter.
- Tableau does not support multiple value parameters. To pass multiple values to one Cognos parameter, define multiple parameters in Tableau and put them in your function. For example "param"="[<Parameters.p1>, <Parameters.p2>, <Parameters.p3>]".

Supported ODBC Features

All identifiers (catalog, schema, table and column names) are case insensitive. This ODBC driver supports 15 Cognos data types. Refer to the data type mapping in following table.

Cognos Data Type	ODBC Data Type	Max Length/Precision	Note
int16	smallInt	5	
int32	integer	10	
int64	bigInt	19	
float32	real	7	
float64	double	15	
decimal	decimal	38	
character	char	8000	

characterLength16	varchar	8000	
nChar	nchar	4000	
nVarChar	nvarchar	4000	
date	date	10	
time	time	8	no milliseconds
datetime	timestamp	19	no milliseconds
textBlob	varchar	8000	mapped to varchar
unknown	varchar	8000	mapped to varchar

This driver has been tested against SQL Server, DB2 and Oracle databases (relational and DMR model). It may not support all data types/functions for other databases.

This driver only supports a) packages with one data source or b) packages with multiple data sources. However, all database connections are of the same type (e.g. SQL Server native connection). It may work for other packages, but some functions may fail.

ODBC features supported by this driver

Numeric, string, date/time, null literals Cast/convert Simple calculation (+, -, *, /, and %) String concatenate\And, or, not logical operators Comparison (<, >, =, <=, >=, !=, between, not between, in, not in, like, not like) Is null, is not null Case (if else) statement Parenthesis Sub queries

Functions supported by this driver

Aggregate function: AVERAGE, AVG, COUNT, MAX, MAXIMUM, MIN, MINIMUM, SUM, TOTAL.

Numeric functions: ABS, ACOS, ASIN, ATAN, CEILING, COS, COT, DEGREES, EXP, FLOOR, LOG, LOG10, MOD, POWER, RADIANS, ROUND, SIGN, SIN, SQRT, TAN, TRUNCATE.

Date and timestamp functions: CURRENT_DATE, CURRENT_TIMESTAMP, DAY, DAYNAME, DAYOFMONTH, DAYOFWEEK, DAYOFYEAR, HOUR, MINUTE, MONTH, MONTHNAME, QUARTER, SECOND, TIMESTAMPADD, TIMESTAMPDIFF, WEEK, YEAR.

Character functions: ASCII, CHAR, CHAR_LENGTH, CHARACTER_LENGTH, CONCAT, LCASE, LCASE, LEFT, LOCATE, LTRIM, LTRIM, REPLACE, RIGHT, RTRIM, RTRIM, SPACE, SUBSTR, SUBSTRING, TRIM, TRIM, UCASE, UCASE. Others: CONVERT, IFNULL

FAQs

Q: What happens when the underlying Cognos model or metadata changes?

A: If a column or table is removed or renamed in Cognos, Tableau will mark the old measure(s) and dimension(s) as invalid when a saved workbook is opened. The user can then decide how to correct the workbook:

- The user can use Tableau's **Replace References** feature to reassign all occurrences with a new, valid column.
- The user can remove references to the old column from the workbook.

If table(s) or column(s) are added, Tableau will display the new column the next time it connects to the data source. This typically happens when a workbook is opened or when a data source is refreshed.

There is nothing specific to the Analytic Connector that changes this behavior of Tableau. For more information on Tableau Data Sources, see this Tableau article:

https://onlinehelp.tableau.com/current/pro/desktop/en-us/refreshing_data.htm

Q: How does a SQL Server nullable uniqueidentifier column work with Cognos and the Analytics Connector?

A uniqueidentifier is typically mapped to a varchar(50) or nvarchar(50) in Cognos models. An issue arises when a nullable uniqueidentifier has a null value. When the output is sent to CSV, the null becomes a '0' which isn't a valid uniqueidentifier and will cause an error.

This can be worked around by adjusting the model to "CAST([uniqueidentifier_column] as nvarchar(50))" instead of just "[uniqueidentifier_column]".

This can also be worked around at the Tableau level using the Custom SQL feature and applying the same "CAST([uniqueidentifier_column] as nvarchar(50))" instead of just "[uniqueidentifier_column]" as part of the SELECT statement.

CONTACT US

The latest version of the Analytics Connector along with related documentation and contact information can be found at https://www.senturus.net/connector-download/.

If you have any additional questions, please contact us at CustomerSupport@senturus.com.