New Features in Data Visualization Desktop 3.0

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Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
  - Enterprise Business Intelligence & Analytics
  - Analytic Warehousing
  - Data Mining and Predictive Analytics
  - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- [www.vlamis.com](http://www.vlamis.com) (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI 11g”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Partner
- Oracle Gold Partner
### OBIEE, BICS, DVD New Features Webcasts

- **11.1.1.3 (August 2010)**
  - Huge release with major new functionality

- **11.1.1.5 (May 2011)**
  - BIWA TechCast May 25: [Oracle BI 11.1.1.5 - New Features](#)
  - BIWA TechCast May 25: [Oracle BI 11.1.1.5 - New Features](#)

- **11.1.1.6 (February 2012)**
  - BIWA TechCast Feb 29: [Oracle BI 11.1.1.6 New Features](#)
  - New features mostly for Exalytics
  - BIWA TechCast Aug 1: [Oracle BI 11.1.1.6.2 BP1 New Features](#)
  - Trellis Views

- **11.1.1.7 (April 2013)**
  - BIWA TechCast Apr 5 [Oracle BI 11.1.1.7 New Features](#)
  - Freeze headers/scroll bars for tables and pivot tables
  - View content in SmartView in Excel and enhanced export
  - New Oracle R Enterprise (ORE) integration and capabilities

- **11.1.1.9 (May 2015)**
  - BIWA TechCast Jun 4, 2015 [Oracle BI 11.1.1.9 New Features](#)
  - Search in Subject Areas pane
  - Global variables and Save Column As choice in Criteria tab

- **12.2.1 (October 2015)**
  - BIWA TechCast Nov 19, 2015 [Oracle BI 12.2.1 New Features](#)
  - Alta UI Skin, new home page, Visual Analyzer and Data Mashup

- **BICS March 2016 (March 2016)**
  - Webcast Apr 5, 2016 BICS [BICS March 2016 New Features](#)

- **12.2.1.1 (June 2016)**
  - BIWA TechCast Jul 19, 2016 [Oracle BI 12.2.1.1 New Features](#)
  - New Visualizations in VA
  - New Data Wrangling features

- **12.2.1.2 and DVD 2.0 (October 2016)**
  - Webcast Nov 22, 2016 [DVD 12.2.2 and OBIEE 12.2.1.2, New Features](#)
  - 25+ new data sources
  - Printing, email and export to pdf and PowerPoint options

- **DVD 3.0 (June 2017)**
  - Webcast Aug 29, 2017 [DVD 3.0 New Features](#)
  - New visualizations
  - Additional data sources
  - Enhanced data prep
  - Updated data flows

All listed on website at [http://www.vlamis.com/obiwebinars/](http://www.vlamis.com/obiwebinars/)
Oracle Business Intelligence Webinars

2017

- DVD 3.0
  - Webcast August 29: DVD 3.0 New Features
    - New visualizations
    - Additional data sources
    - Enhanced data prep
    - Updated data flows

2016

- 12.2.2 (October 2016 Release)
  - Webcast November 22: DVD 12.2.2 and OBIEE 12.2.1.2. New Features
  - 25+ new data sources
  - Printing, email and export to pdf and PowerPoint options
- 12.2.1.1 (June 2016 Release)
  - BIWA TechCast July 19: Oracle BI 12.2.1.1 New Features
  - New Visualizations in VA
DV V3 Functional New Features Overview

A. Data Visualization
   1. *Graphical confidence levels,
   2. *Top & Bottom N Filters
   3. *New Waterfall & Boxplot Visualizations
   4. *Duplicating & re-ordering canvases
   5. *Chart & Axis layout additional options

B. Data Sources
   6. Generic ODBC / JDBC support
   7. Support for O-Data, Oracle Docs
   8. *Remote OBIEE SAs as data-source
   9. *Additional txt delimiters, undo in query builder

   * Will demonstrate, time permitting

C. Data Prep
   10. *Enhanced Convert-to-Date feature
   11. *Set time grain level & format for time objects

D. Data Flows
   12. *Improved flow-chart UI
   13. *Deliver output to remote connection (RDBMS/Hive)
   14. Merge columns step, additional expression functions

E. Console & Administration
   15. *Custom Viz plugins upload screen
   16. *Custom map layers support & upload console
   17. Single-click publish project to Cloud
A - Data Visualization
1 - Graphical confidence levels

Set the confidence level directly on right-click menu for trend lines.
2 - Top & Bottom N Filtering

Switch between Range filtering and Top/Bottom filtering mode
3 - New Waterfall & Boxplot Visualizations
4 - Duplicating & re-ordering canvases

Duplicate into a new Canvas with all the source content

Drag and drop Canvases to re-order them in any sequence
5 - Chart & Axis layout additional options

- Show / Hide axis graduation labels,
- Enable logarithmic scale

- Show / Hide lines & points,

- Select centered or left-aligned steps/segments
B - Data Sources
6 - Data-sources support Generic ODBC

1. Register ODBC data-source on host machine
2. Create DVD Connection to host ODBC source
3. Create DVD data-source from ODBC connection
4. Build Visualizations
6 - Data-sources support JDBC, Presto example

2.3. JDBC Driver

Presto can be accessed from Java using the JDBC driver. Download `presto-jdbc-0.175.jar` and add it to the class path of your Java application. The following JDBC URL formats are supported:

```
jdbc:presto://host:port
jdbc:presto://host:port/catalog
jdbc:presto://host:port/catalog/schema
```

1. Enable JDBC driver on host
2. Create DVD Connection to JDBC source
3. Create DVD data-source from JDBC connection
4. Build Visualizations

$1.22M
7 - Data-sources support O-Data

1. Identify O-Data data-source URL
2. Create DVD Connection O-Data source
3. Create DVD data-source from O-Data connection
4. Build Visualizations
7 - Data-sources support : Oracle Docs

1. Create DVD Connection to Oracle Docs
   - Oracle Docs (Beta)
   - *New Connection Name: Oracle Documents
   - *URL: https://oradocorp.documents.us2.oraclecloud.com
   - *Username: [Enter username]
   - *Password: [Enter password]

2. Create DVD Data source by selecting the document

3. Build Visualizations

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<th>A</th>
<th>Product</th>
<th>A</th>
<th>Product Type</th>
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<th>A</th>
<th>Revenue</th>
<th>A</th>
<th>Billed Quantity</th>
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</table>
8 - Remote OBIEE Subject Areas as Data-source

1. Create DVD Connection of type Oracle Applications

2. Create DVD Data source by selecting a Subject Area

3. Select objects from the Subject Area to compose your DVD data-source

4. Build Visualizations
9 - Additional txt sources delimiters, undo in query builder
C - Data Preparation
10 - Enhanced Convert-to-Date features

Convert to Date automatically suggests source data time format, allows granular override.
11 - Set time grain level & format for time objects

From the date column properties menu in Prepare tab, set default level or format for any time column across visualizations.

Set time grain (i.e., level of detail) for any time column across visualizations. From milliseconds to years.
11 - Set time grain level & format for time objects

<table>
<thead>
<tr>
<th>Order Date</th>
<th>Properties</th>
<th>Extract</th>
<th>Duplicate</th>
<th>Convert to Text</th>
<th>Concatenate...</th>
<th>Create Column...</th>
<th>Edit Column...</th>
<th>Hide</th>
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<td>Month</td>
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<td>12 PM</td>
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</tbody>
</table>

Or directly in the prepare tab, extract a richer set of date grains from any date column.
D – Data Flows
12 - Data Flow Improved flow-chart UI
13 - Deliver DF output to remote connection

Option to save Data-Flow output directly into underlying database connection
14 - Data Flow Merge column and other expressions

New Function to merge multiple columns into a single column

New aggregation calculations available in expression editor
E – Console & Admin
15 - Custom Viz plug-ins, 16 - Custom Map Layers upload console

Upload and manage custom-viz plugins directly from console interface.

Upload and manage additional custom-map layers (GeoJSON files) from console interface.
17 - Single-click publish project to Cloud

Right click option to directly publish DV Project to cloud.

This feature will only work with upcoming release of Oracle Analytics Cloud.
Oracle Analytics Store

Map layer: Spain
Oracle Data Viz
July 31, 2017
Three different layers for the country of Spain including: communities, municipalities, provinces. Download prebuilt data (Admin 123) examples.

CalcModifier
Oracle Data Viz
July 20, 2017
The CalcModifier plugin allows you to modify multiple instances of variables in your custom calculations in one go, giving you the ability to perform lightweight what-if scenarios easily in your DV analytics.

InfoGraphic Viz Plugin
Peak indicators
July 10, 2017
This InfoGraphic Viz plugin developed by PMAB indicators enables you to display variable interaction between different dimensions and measures. Custom visuals can be created to meet your business needs.

LinesOnMap Viz Plugin
Oracle Data Viz
July 11, 2017
A custom viz plugin that draws line geometries on a map using source & destination lat/long coordinates. Geodesic line (curved) geometries are also supported in this plugin. Color and Size of the lines can be modified by the grammar which helps in depicting a clear picture of the data flows.

Map layers: Brazil
Oracle Data Viz
July 10, 2017
Four different layers for Brazilian Territorial States, microregions, microregions and Cities shapes, includes data (Admin 123) examples.

Map layers: Washington DC (Metro)
Oracle Data Viz
July 10, 2017
Example of line geometry based custom map layer depicting Metro lines in Washington DC. This package contains custom map layer (JSON file) and a sample code project (Admin 123) to demonstrate this custom layer. Import the JSON file using custom map layers UI manager and choose both Name and ObjectID as layer keys.

Map layer: France Departments
Oracle Data Viz
July 31, 2017
JSON file for France showing all the departments within France. Departments is an administrative division in France. This package also contains a sample data package for demonstration of custom map layer which shows the area and population of various departments in France.

Map layer: Floor Plan Map
Oracle Data Viz
July 31, 2017
This is an example of non-geographic custom map layer. This package contains a JSON file for Floor Plan showing different elements. Import this JSON file using custom map layers UI manager and choose CAGE_ID as layer key.

Map layer: Airports Around the World
Oracle Data Viz
July 31, 2017
This is an example of custom map layer showing airports worldwide using point geometry coordinates. Import the JSON file using custom map layers UI manager and choose both Name and ObjectID as layer keys. Example data project is in Admin 123.

Map layer: India States
Oracle Data Viz
July 31, 2017
JSON file for India Map with latest States and their Boundaries also includes some of the Indian Andaman islands. The package contains custom map layer and a

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Resources and Questions?

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Oracle Analytics Public Store with plugins http://www.oracle.com/goto/OAStore
YouTube channel BI Tech Demo from SampleApp Team https://www.youtube.com/user/OracleBITechDemos
   Video on many new features https://www.youtube.com/watch?v=5ndlZNNMtEo

BIWA Summit 2018 Conference http://www.biwasummit.org