Oracle BI 12.2.1.1 New Features

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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
  - Data 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
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](#)

11.1.1.6 (February 2012)
- BIWA TechCast Feb 29: [Oracle BI 11.1.1.6 New Features](#)
- New features mostly for Exalytics

11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
- BIWA TechCast Aug 1: [Oracle BI 11.1.1.6.2 BP1 New Features](#)
- BI Mobile rewrite
- 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
- New Treemap view
- 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
- Dashboard Subpages
- New Data Wrangling features
- BI Publisher and MapViewer enhancements
Use Questions or Chat or Questions to communicate

www.vlamis.com
OBIEE SampleApp V607

Quick Demonstration

Courtesy Oracle BI PM Demo Group
High Level List of New Features

- First patch release of 12c
- Feature parity with BICS and DVCS
- More VA data visualization enhancements
- Data Wrangling – Transformations associated with a data set
- New Data Sources & Permissions
- Data Blending XSA – XSA Sources
- Dashboard Subpages
- Detailed Upgrade Guide
- New Baseline Validation Tool (BVT) features
- BI Publisher amd MapViewer Enhancements
Story Telling and Insight Enhancements

- BICS and DVCS VA Feature Parity – Story Telling

  - Click to make active.
  - Drag to reorder.
  - Hover to get preview.

Presentation mode hides navigation and editing panels.
Editable Insight.
New Visualizations in VA

- Combo (with dual axes)
- Scatter (Cat.)
- Stacked Scatter (Cat.)
- Donut
New Visualizations in VA

- Combo (with dual axes)
- Scatter with categorical X axis (and stacked scatter)
New Visualizations in VA

- Donut
- Images
Images and Text Allow For Dashboards

Text can be a link
Enhancements in VA

- Improved Filtering
- Zoom on viz
- “Drill Down on” Anywhere
- Improved color selector
Enhancements in VA

- New option in VA to source data sets from Fusion SaaS applications (user specifies URL and login info) or external sources (lots!)
Oracle BI 12c 12.2.1.1

• Data Wrangling
  – Transformations associated with a data set
  – Wrangling interface available on the Stage (VA has Canvas and Stage)
  – Commonly used transforms are available via UI
  – Can write custom transforms directly into the expression Editor
Oracle BI 12c 12.2.1.1

- Permissions on Data Sources

- New Data Sources
Answers and Dashboards

Easier Navigation

Dashboard Sub Page
BI Publisher 12.2.1.1 New Features

- For End Users
  - Deliver documents to Oracle Document Cloud Service

- For Report Authors
  - Use WebCenter Content as a Data Source
  - Attach PDF to your Invoices
  - Integrate using RESTful APIs
  - Deliver E-mail Body in HTML format along with Report as attachment

- For Administrators
  - Manage Custom Fonts
  - Manage PGP Keys for FTP Delivery Encryption
  - Manage large size reports via Dynamic Memory Guard
  - Manage File Data Security on Cloud via Encryption

Information from BI Publisher Product Management.
Oracle MapViewer 12.2.1.1 New Features

- More deployment options
  - Generic EAR file can be deployed to other JEE containers such as Tomcat or GlassFish
  - Can now be deployed in generic WebLogic Server (without JRF)

- Web admin console enhancements
  - More streamlined / improvements to page performance and responsiveness

- Dynamic tile layer improved query and rendering performance

- Support for GeoRaster virtual mosaic and LRS themes

- Upgraded support for HERE Maps using HERE V3 API

- Style enhancements: can now have stacked styles on features

Information from MapViewer Product Management.
Oracle Test Drive

- Free to try Oracle BICS, Oracle Advanced Analytics
- Go to [www.vlamis.com/td](http://www.vlamis.com/td)
- Runs on Oracle Cloud
- Test Drives for:
  - Oracle BICS
  - Oracle Advanced Analytics (initially Oracle Data Mining)
  - More test drives to be added
- Once sign up, you can access for 24 hours
- Click by click script included, but can go “off road”
- Faster and easier than official Oracle “trial web account”
SampleApp V607 : Installed Software

• Oracle Enterprise Linux 6.7 x64
• OBIEE 12.2.1.1
  Essbase 12.2.1.1, BVT, Oracle MapViewer 12c, MV Demo Samples
• Oracle Database 12.1.0.2.0 EE (PluggableDB), 04/2016 patchset, APEX 5.0.3 & ORDS 2.0.1, ODM, Oracle Spatial
• ORE 1.4.1 & R-3.1.1
• CDH 5.7, Oracle BDSQL, Spark & Hive Thrift Server
• Utils : Start scripts, MapBuilder 12c, SQLDev 4.1.3
SampleApp V607: New DV Sourcing Features

Oracle DB, Spark, Impala, Hive direct DV sourcing...

Spark-OnLine Sales Analysis
Visual Analyzer 12:27 PM

OracleDB-Target Revenue Analysis
Visual Analyzer 12:27 PM

OracleDB-Flight Delay Analysis
Visual Analyzer 12:27 PM

OBIEE-Sales Analysis
Visual Analyzer 12:26 PM

Impala-Inventory Analysis
Visual Analyzer 12:26 PM

Hive-Customer Sales Analysis
Visual Analyzer 12:25 PM

And more....
SampleApp V607: New DV Sourcing Features

**Multiple datasource types**

- From a File
- From Oracle Applications
- From Database

**Numerous Connection types**

- Database Type: Oracle, Spark, SQL Server
- *Host*, *Port*, *Username*, *Password*, *Service Name*
- Live Connection Flag: Auto - use local cache when possible, Live - always use the database

**SQL Based Sources (including Advanced SQLs)**

```
SELECT FLIGHTNUM, CARRIER, ORIG_AIRPORT, DEST_AIRPORT, FLIGHTDATE, AIRTIME, DEPDELAY, I, PREDICTION (FOR ARRDELAY USING DEPDELAY,AIRTIME) OVER () PREDICTED_ARRDELAY
FROM FLIGHTS_SAN_JAK
```

**Edit Join type (Data Blending)**

- Data Sets: Data Blending
- Join Example P... Matching Rows
- Join Example C... All Rows
SampleApp V607: Freeform DV Visualizations

Infographic U.S. Auto Industry

Timeline: 1900s-1910s - The assembly line
1908 General Motors is born
General Motors is founded in Detroit, MI and would become the highest producing auto maker until the recession of 2008

1920s & 1930s - The assembly line
Henry Ford introduced the assembly line in 1910. 20 years later, auto production increased 100x year-over-year

1930s - The race to the top
U.S. manufacturers begin to compete with overseas auto companies. By the end of the 1930s, nearly 1/2 of U.S. automakers existed, with only 10 remaining in the 1940s. Ford and Chrysler were the main players.

1940s - The highway system
The expansion of the interstate highway system led to the highest number of deaths per 100k km driven in U.S. history. The mandate of the California Highway Patrol reduced the number each year.

1950s - The oil crisis
By the mid-1960s, oil prices had plummeted. Although the gas and oil industry lay in ruins, it provided an opportunity for the U.S. automotive industry to help revitalize its RF.

1960s - The “bubble”
The growth of 2008 oil but failed. The Big 3 government and private investors saved each other, and the market share they once had

1970s - The end of a era
Before giving “price” was even a thought, American muscle cars ruled the road. The gas shortage of the 1970s changed the way Americans and automakers thought of cars. By 1980, the American muscle car was a thing of the past.

1980s crime impact
Auto theft was never higher than in the 1960s. Import cars had a higher value than cars then, so a foreign car would be a great value.
Resources and Questions?

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Vlamis Home page www.vlamis.com  Blog www.vlamis.com/blog
Test Drive www.vlamis.com/td Prior OBIEE releases www.vlamis.com/papers
Oracle BI SampleApp v607 and Resources (August 16, 2016!) http://www.vlamis.com/papers2016/#aug16
YouTube channel BI Tech Demo from SampleApp Team https://www.youtube.com/user/OracleBITechDemos
Fusion Middleware 12c Documentation http://docs.oracle.com/middleware/1221/bisuite/index.html
BICS Demo as part of OTN Summit http://www.vlamis.com/papers2016/#jul12
BIWA Summit 2017 Conference http://www.biwasummit.org