New Features in Oracle Analytics Cloud 18.3.3

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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 (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Reseller
- Oracle Gold Partner
OBIEE, BICS, DVD, OAC 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](#)

- 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](#)
  - 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](#)

- 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](#)

- 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](#)

- DVD 3.0 (June 2017)
  - Webcast Aug 29, 2017 [DVD 3.0 New Features](#)

- DVD 4 (October 2017)
  - Webcast Nov 9, 2017 [DVD 4 New Features](#)

- OAC 4 (December 2017)
  - Webcast Dec 19, 2017 [OAC 4 New Features](#)
  - Webcast Apr 4, 2018 [Migration from OBIEE to OAC Webinar](#)

- 12.2.1.4 (June 2018)
  - Webcast Jun 19, 2018 [Oracle BI 12.2.1.4 New Features](#)

- OAC 18.3.3 (September 2018)
  - Webcast Sep 27, 2018 [OAC 18.3.3 New Features](#)

All listed on website at [http://www.vlamis.com/obiwebinars/](http://www.vlamis.com/obiwebinars/)
Use Questions or Chat or Questions to communicate
OAC 18.3.3 Selected New Features Overview

A. Data Preparation
   1. Recommendations – Transformations & Enrichments
   2. Data Preparation Scripts

B. Data Flows & Data Sources
   3. Incremental Processing
   4. Parameterized Sources & Output
   5. Dataflow Branching Node
   6. Function Shipping Calculations to BDC
   7. Output Data Set Aggregation Control
   8. Dataflow Status Inspector
   9. Data Replication (New Sources & Targets)
  10. Local Subject Area Data Set
  11. Multiple ADWC Connections with dialog box

C. Data Visualizations
   12. New Visualizations :
       Grid Heatmap, Correlation Matrix, Picto Charts, 100% Stacked Bar, Area
   13. Maps - Multiple Data Layers
   14. Maps - Dynamic Heatmap
   15. Maps – Google & Baidu base maps
   16. Tool Tip Grammar Support
   17. Experience Enhancements
      • Value as % for Treemap & Sunburst
      • Auto Save
      • Zoom to Value range for Axis
      • Copy Data to Clipboard
   18. Publish Event Action to External Portal

D. Other
   19. Data Set Replace

E. Essbase
   30. Essbase Improvements

To be demoed in OAC 18.3.3 What’s New Webcast
1 - Data Prepare Recommendations

City Column Enriched with City Population

Recommendation to Obfuscate Credit Card Number

See demo of this in playlist
1 - Data Prepare Recommendations

**Transformation Examples**

- **Obfuscation (Mask)**
  - Recommendations (87)
    - All Columns
      - Selected a column to filter list
      - # # Obfuscate cnumber
      - # # Delete cnumber
      - # # Obfuscate First 12 Digits of cnumber
      - # # Obfuscate ssn
      - # # Delete ssn
      - # # Obfuscate First 6 Digits of ssn

- **Extract Data Fields**
  - Recommendations (87)
    - All Columns
      - Selected a column to filter list
      - Extract area_code from phone
      - Extract Part_1 from phone
      - Extract Part_2 from phone
      - Extract Part_3 from phone
      - Extract Year from birthdate
      - Extract Month from birthdate
      - Extract Day from birthdate

**Enrichment Examples**

- **Geo or Generic enrichments**
  - Recommendations (87)
    - All Columns
      - Selected a column to filter list
      - Enrich zip with City
      - Enrich zip with Lat
      - Enrich zip with Lon
      - Enrich zip with State
      - Enrich country with Capital
      - Enrich country with square_km
      - Enrich country with Population
      - Enrich city with Country
      - Enrich city with Province
      - Enrich city with Jurisdiction
      - Enrich city with Population
      - Enrich city with Timezone

See demo of this in **playlist**

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2 - Data Preparation Scripts

See demo of this in playlist
3 - Data flow - Incremental Processing

Run dataflows on Incremental data based on **New Data Identifier** column instead of running the same dataflow on already processed data.

New data is identified based on **New Data Identifier** column (Unique Key).
4 - Data flow - Parameterized Input/Output

Parameterization of Input to the dataflow

Parameterization of Output dataset

Prompt to assign Input datasource and Output datasource to Dataflow

See demo of this in playlist
5 - Data flow - Branching Node

Branch Dataflow data into sub-datasets with various tracks of transformations in a single dataflow

See demo of this in playlist
6 - Data flow - Function Shipping Calculations to BDC

Source Tables from BDC

Output Table saved to BDC

All nodes in this dataflow are function Shipped to BDC

See demo of this in playlist
7 - Data flow - Output Dataset Control

Users set output Columns with Attribute or Measure property

Users set edit column names in output table

Users can decide the Default Aggregation rule of a Metric column
8 - Data flow - Properties Inspector

Shows information about the dataflow.

Schedules on a Dataflow can be removed from the Schedules sub-tab in Inspector.
9 - Data Replication

Replicate data automatically out of Oracle Cloud applications into local DV Datasets.
10 - Local Subject Area Data Set

Easily create local datasets directly out of any Subject Area in your OAC system.
11 – Easy Access to Multiple ADWC Connections

Easily upload distinct wallet files for each ADWC new connection, create connections to multiple ADWC sources.

Replace Wallet option under Console > Manage Connections applies to RPD/TCM connections.
Grid Heat Map visualizes Metric value for a combination of two columns as matrix of colors.

Correlation Matrix Visualizes correlation between multiple metric columns at once.

Visualize absolute numbers in a more prominent and exciting way using discrete shapes.

See demo of this in playlist
12 - New Viz - 100% Stacked charts

100% Stacked Bar

100% Area chart

See demo of this in playlist 🎥 Copyright © 2017, Oracle and/or its affiliates. All rights reserved.
13 - Maps - Multiple Data Layers

Menu to manage Map Layers

Clicking on Layer icons will Toggle a Layer On or Off

Layers Properties

See demo of this in playlist
14 - Maps – Density and Metric based Heatmap

Choice of various interpolation methods

Fine controls for heat radius, color spectrum, transparency etc
15 - Maps - Background Maps

Road, Satellite, Terrain & Hybrid Map types from Google Maps

Baidu and Google Maps

See demo of this in playlist

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16 - Tooltips Support in all Vizs

Metric columns added in Tooltip field are displayed when user hover over visualization

Users can add Measure columns to Tooltip Grammar field

See demo of this in playlist
17 - Value as Percent for Treemap, Sunburst

Display Data Values with Value, Percent, Label on each segment

Data is displayed with: Label, Value, Percent values
Auto Save option Saves a project automatically with every change made to the project.
New Reference line options like Average, Median, Minimum, Top N, Bottom N are available from OAC V4.2

Automatic Zoom to data value for axis ranges

Non-zero OK for Line, not OK for Bar
17 - Copy Data to Clipboard

<table>
<thead>
<tr>
<th>Product Category</th>
<th># of Order Lines</th>
<th>Sales</th>
<th>Profit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furniture</td>
<td>1,884</td>
<td>2,893,293.32</td>
<td>156,630.45</td>
</tr>
<tr>
<td>Office Supplies</td>
<td>4,931</td>
<td>2,131,859.01</td>
<td>413,406.65</td>
</tr>
<tr>
<td>Technology</td>
<td>2,286</td>
<td>3,474,847.57</td>
<td>720,962.00</td>
</tr>
<tr>
<td>Total</td>
<td>9,000</td>
<td>8,500,000.00</td>
<td>1,300,000.00</td>
</tr>
</tbody>
</table>

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18 - Publish Event Action to External Portal

**Configuring Data Actions**

**Consuming Data Action for interactions within external portals**

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**Profit by Customer Segment, Product Sub Category**

<table>
<thead>
<tr>
<th>Profit by Customer Segment, Product Sub Category</th>
<th>Appliances</th>
<th>Binders and Binder Accessories</th>
<th>Bookcases</th>
<th>Chairs &amp; Chairmats</th>
<th>Computer Peripherals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer</td>
<td>12,386.93</td>
<td>31,183.43</td>
<td>7,338.95</td>
<td>45,387.43</td>
<td>10,421.43</td>
</tr>
<tr>
<td>Corporate</td>
<td>49,034.36</td>
<td>80,544.00</td>
<td>-4,391.16</td>
<td>38,240.69</td>
<td>30,255.79</td>
</tr>
<tr>
<td>Home Office</td>
<td>24,348.58</td>
<td>40,243.82</td>
<td>-18,057.43</td>
<td>35,273.00</td>
<td>13,783.03</td>
</tr>
<tr>
<td>Small Business</td>
<td>22,520.87</td>
<td>52,620.89</td>
<td>-3,452.40</td>
<td>30,510.48</td>
<td>14,137.05</td>
</tr>
</tbody>
</table>

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See demo of this in playlist
19 - Data Set Replace

Re-use existing projects on various different datasets

Re-map every used column from one dataset to another

See demo of this in playlist
20 - Explain Enhancements

Explain for Metrics

Asynchronous UI: Anomalies published as they are found. Algorithm keeps running in the background

New Anomalies detection Algorithm to identify Anomalies in combination of columns

Explain Profit

Anomalies of Profit

When Order Priority is High, we expected Profit for Product Category: Furniture to be 41,859.27, however, it is 78,130.22, representing a difference of 36,270.95.

When Order Priority is High, we expected Profit for Customer Segment: Corporate to be 128,317.01, however, it is 99,162.21, representing a difference of 29,154.80.

See demo of this in playlist
21 - Objects Inspector Consistency

- **Projects**
  - Sample Project
    - General: Name: Sample Project, Description: Oracle DV Desktop Samples OverView,
      Created By: on Yesterday at 10:47 PM, Modified By: on Yesterday at 10:47 PM,
      Location: My Folders

- **Datasets**
  - CLOUD_F_BILL_REV
    - General: Name: CLOUD_F_BILL_REV, Created On: Today at 12:58 PM,
      Modified On: Today at 12:57 PM,
      Owner: Admin,
      Type: SQL Query,
      Connection: bics_sample/app,
      Database Type: Oracle Database,
      Data Access: Automatic Caching

- **Dataflows**
  - DF Test
    - General: Name: DF Test, Description:
      Created By: Admin, Modified By: Admin on Today at 12:58 PM

- **Sequences**
  - Profitability Computation Sequence
    - General: Name: Profitability Computation Sequence
      Created By: admin, Modified By: admin just now
22 – Data Sets Permissions

Certification to allow datasets to be queried via Ask by other users

Fine grain permissioning for datasets

See demo of this in playlist
23 - Console Menu Reorganized

- **Console**
  - Extensions
    - Maps
    - Social
    - Search Index
  - Jobs
    - Safe Domains
    - Service Administration

**Map Backgrounds**
- Default: **Oracle BI**
  - Description: Thematic world map from Oracle (light grey colored)
- Default: **Oracle Maps**
  - Description: General reference world map from Oracle

**Safe Domains**
- Allow importing from
  - Domain Name: All domains
    - Add domain
- Allow embedding in
  - Add domain

**Administer**
- Users & Roles
- Snapshots

**Manage**
- Connections
- Virus Scanner
- Sessions & Query Caches

**Issue SQL**
- Monitor Deliveries
- Configure Mail Settings
24 - User Profile

Links to Content Shared using Social Sharing
Projects, Datasets and Dataflows can be opened in the same Tab or New Tab.
26 - Data Set Storage Cleanup Menu

Get Started with Oracle Analytics Cloud

Data Set Storage

8.2MB of 20GB Used

<table>
<thead>
<tr>
<th>Users</th>
<th>Quota</th>
<th>Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin</td>
<td>20GB</td>
<td>8.2MB</td>
</tr>
</tbody>
</table>

- Import Project
- Data Set Storage
- Open Classic Home
- Open Data Modeler
- Customize Home Page

Delete Private
Delete All
Custom Index Dataset option allows users to decide the type of Indexing at column level.

Indexing can be Scheduled and Repeated periodically.

See demo of this in playlist.
A dataset index is only visible in search to its owner. In order for everyone to see a dataset’s index results in their searches, the dataset must be certified as valid by an administrator and then shared with all users.
27 – Search (DxD) : Multi term matching, Top, Bottom, First, Least, Most...

Fluid english questions, Top / Bottom & other keywords in search
28 - Day by Day V2.0 improvements

• Multiple bring backs :
  – Bring back when contacted by, when contact Calls or texts,
  – show this analysis every Monday or if my boss calls
• Filter within : interact/filter your search results
• “Bring back” management screen to add/mod/delete your Bring backs
• Added support for www.appconfig.org MDM standard for high security deployments
30.1 - Essbase - 18.3.xx Features (Essbase 112 & 113/114)

- JET UI (Modern interface)
  - Create and Manage Outline
    - Textual Measures
    - Outline in Editors
    - Pagination (Prev and Next) (Focussed Changes)
    - Search capability (faster search / quick navigation)
    - Attribute dimension (Automatically point to last added sparse dimension - Association)
    - UDA's
  - Essbase rules editor in Modern UI (Jet UI)

- Cube Designer
  - Provide a way for users to customize the Gallery within Cube Designer
    - Manage Custom Folders on the server from within Excel
    - Manage files on the server from within Excel
  - Incremental Support for Unstructured Import
    - From Cube Designer
    - From Modern UI (*JET UI)

- Other
  - External communication over HTTPS
  - Scenario support for a cube with existing data
  - Essbase REST Swagger documentation
  - Table Format (Unstructured) deploy type (ASO/HBSO/...)
  - Allows to use SQLW data source over REST API
  - Templates changes (New Gallery Templates)

- LCM
  - Lift and shift non-unicode apps to the cloud
  - Selective Artifact Migration

- Platform Capabilities
  - Jobs for MDX Insert/Export
  - Jobs for Aggregate View Creation
  - Datasource Security Filters

- Service Health Performance Analyzer
Demo
Resources and Questions?

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YouTube channel Oracle Analytics from SampleApp Team https://www.youtube.com/user/EvolvingBI/videos

YouTube video playlist on OAC 18.3.3 new features https://www.youtube.com/playlist?list=PL6gBNP-Fr8KWJxzgqQFV1rE6UWOgmNWp