New Features in
Oracle Analytics Cloud 105.4.0

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Future and past TechCasts:

November 7th, TechCast
Date: Nov 7, 2019, 12pm ET
Presenter: Dan Vlamis
Subject: What's New in Oracle Analytics Cloud version 105.4.0

November 21st, TechCast
Date: Nov 21, 2019, 12pm ET
Presenter: Charlie Berger
Subject: The Changing Role of DBA: From Database Developer to Data Scientist in 6 Weeks!

2019 TechCast Archive

<table>
<thead>
<tr>
<th>Date</th>
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<th>Video Replay</th>
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Submit a topic to share at https://analyticsanddatasummit.org/techcasts/

Formerly called the BIWA Summit with the Spatial and Graph Summit
Same great technical content...new name!
www.AnalyticsandDataSummit.org
▪ 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 11g”
▪ Co-author of book “Oracle Essbase & Oracle OLAP”
▪ Creators of Force Directed Graph Plugin on Oracle Analytics Library
## Oracle Analytics New Features Webcasts

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1.1.3 (August 2010)</td>
<td>Huge release with major new functionality</td>
</tr>
<tr>
<td>11.1.1.5 (May 2011)</td>
<td>BIWA TechCast May 25: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 11.1.1.5 - New Features</a></td>
</tr>
<tr>
<td>11.1.1.6 (February 2012)</td>
<td>BIWA TechCast Feb 29: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 11.1.1.6 New Features</a></td>
</tr>
<tr>
<td>11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)</td>
<td>BIWA TechCast Aug 1: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 11.1.1.6.2 BP1 - New Features</a></td>
</tr>
<tr>
<td>11.1.1.7 (April 2013)</td>
<td>BIWA TechCast Apr 5: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 11.1.1.7 New Features</a></td>
</tr>
<tr>
<td>11.1.1.9 (May 2015)</td>
<td>BIWA TechCast Jun 4, 2015: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 11.1.1.9 New Features</a></td>
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<td>12.2.1 (October 2015)</td>
<td>BIWA TechCast Nov 19, 2015: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 12.2.1 New Features</a></td>
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<td>BICS March 2016 (March 2016)</td>
<td>Webcast Apr 5, 2016: <a href="http://www.vlamis.com/oawebinars/">BICS March 2016 New Features</a></td>
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<td>12.2.1.1 (June 2016)</td>
<td>BIWA TechCast Jul 19, 2016: <a href="http://www.vlamis.com/oawebinars/">Oracle BI 12.2.1.1 New Features</a></td>
</tr>
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<td>12.2.1.2 and DVD 2.0 (October 2016)</td>
<td>Webcast Nov 22, 2016: <a href="http://www.vlamis.com/oawebinars/">DVD 12.2.2 and OBIEE 12.2.1.2 - New Features</a></td>
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<td>DVD 3.0 (June 2017)</td>
<td>Webcast Aug 29, 2017: <a href="http://www.vlamis.com/oawebinars/">DVD 3.0 New Features</a></td>
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<tr>
<td>OAC 4 (December 2017)</td>
<td>Webcast Dec 19, 2017: <a href="http://www.vlamis.com/oawebinars/">OAC 4 New Features</a></td>
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<td>OAC 18.3.3 (September 2018)</td>
<td>Webcast November 7, 2019: <a href="http://www.vlamis.com/oawebinars/">OAC 18.3.3 New Features</a></td>
</tr>
<tr>
<td>OAC 105.2 (April 2019)</td>
<td>Webcast Apr 23, 2019: <a href="http://www.vlamis.com/oawebinars/">OAC 105.2 New Features</a></td>
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<tr>
<td>OAC 105.3 (June 2019)</td>
<td>Webcast Jul 25, 2019: <a href="http://www.vlamis.com/oawebinars/">OAC 105.3 New Features</a></td>
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All listed on website at [http://www.vlamis.com/oawebinars/](http://www.vlamis.com/oawebinars/)

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Oracle Business Intelligence Webinars

2019

- New Features in Oracle Analytics Cloud 105.4.0
  - Webcast November 5, 2019 12:00pm Central - Register Now!
- New Features in Oracle Analytics Cloud 105.3.0
  - Webcast July 25, 2019 12:00pm Eastern
- New Features in Oracle Analytics Cloud 105.3.0
  - Webcast July 10, 2019 - Watch Replay
- New Features in Oracle Analytics Cloud 105.2.0
  - Webcast April 23, 2019 - Watch Replay
- Introduction to OAC Running on ADW
  - Webcast March 6, 2019 - Watch Replay
- New Features in Oracle Analytics Cloud 19.1.1
  - Webcast February 27th, 2019 - Watch Replay

2018

- What's New in OAC
OAC 105.4 Selected New Features

**Self-Service Analytics**
1. Unified Home page
2. Copy Vizs & Canvas across projects
3. DV fonts and color customization
4. Right-click-forecast on all Time levels
5. Maps ambiguous location-matches
6. Spatial-functions in RPD models
7. Improving dashboard “Explore in DV”

**Search/Ask**
8. Recognize plurals & autocorrect for searches
9. BI searching catalog content
10. DxD SSO Setup

**DataFlows / DataPrep**
11. Export/Import data-flows
12. Additional Nodes & Wizards: Split column, trim spaces
13. Data Flow Tool tips
14. OCI Storage for FA data replication

**OA Publisher**
15. SSL for datasources
16. Scheduler REST APIs
17. Hiding mandatory parameters

**Datasources**
18. More support for SSL Encrypted datasources
19. SSL & RDG for Big Data providers & Support for Oracle Big Data SQL
20. RDG for Tier2 sources (Spark, Hive, Redshift...)
21. PBCS Enhancements
22. Thousand/Decimal separator pick in CSV imports

**Security/Admin**
23. Top level URL changes
24. Login check for embedded content
25. Kerberos authentication

**Internal Playlists** [bit.ly/OAC54Features](bit.ly/OAC54Features)

To be demoed live in OAC 105.4.0 webinar
Unified Home Page

Intuitive unique interface to search and filter for catalog content (DV and Dashboards), datasets connections, models, dataflows...

Blending freeform NLP query (Ask) with catalog search
Copy and Paste Viz and Canvas across Projects

Datasets with join, calculations, filters etc are copied during copy/paste operation.
Custom Fonts in Canvas

Customize fonts formats for each text labels (Title, legends, axis, values...), customize viz backgrounds...
Right Click Forecast on all levels of time hierarchy

Run right click forecast on charts using any generic level of time columns hierarchies (month, week, quarters, etc)
Maps: Location Matches Reporting

OAC automatically reports on data records that did not match any map layers metadata (i.e., not represented on the map visualization).
Geometry as a datatype & Logical Spatial functions

New Logical SQL syntaxes allow to function-ship spatial calculations down to database when using an RPD source.
Explore as Project in Dashboard Reports Links

Dashboard report links allows to click on a dashboard report and immediately export it into DV for further self service analysis.
Recognize Plurals and Auto-Correct Searches (& more)
Export/Import Data Flow

Export Data Flows or Sequences

As DVA files

Import in different OAC Instances
Split Column – In Data Flow and Data Prepare

**Split Node in Data Flows**

**Split Wizard in Data Prepare**
Trim Spaces and Tool Tips in Data Flows

Single Click Trim in Data Flows and Data Prepare

Tool tips in dataflow
Thousand/Decimal Separator in CSV import

Thousand and Decimal separator options when importing CSV data
More encrypted Data sources

- Apache Hive
- DB2
- Hortonworks Hive
- IBM BigInsights Hive
- MapR Hive
- Pivotal HD Hive
- Spark
- SQL Server
Kerberos Authentication on Various Connections

Client Credentials are zipped with 3 config files:

- krb5conf
- ooc.keytab
- service_details.json

Connections supporting Kerberos:

- Amazon EMR
- Apache Hive
- Pivotal HD Hive
- MapR Hive
- Hortonworks Hive
- IBM BigInsights Hive
- Impala

Host, Port and Service Principal are auto filled when zip is uploaded.
### Changes to top level URL namespaces

A single set of top level URL namespaces for all OAC features and APIs, with a consistent set of security policies.

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Top Level URL</th>
<th>Security Policy - (See Types Below)</th>
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<tbody>
<tr>
<td>Stateful Applications and UIs</td>
<td>/ui/**</td>
<td>OAuth</td>
</tr>
<tr>
<td>Public Authenticated APIs</td>
<td>/api/**</td>
<td>Multi-token</td>
</tr>
<tr>
<td>Public Anonymous - Applications, UIs, APIs</td>
<td>/anonym/*</td>
<td>Anonymous</td>
</tr>
<tr>
<td>Static Resources</td>
<td>/static/*</td>
<td>Public</td>
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<td>Existing /analytics</td>
<td>/analytics/*</td>
<td>OAuth</td>
</tr>
<tr>
<td>Existing /xmlpserver</td>
<td>/xmlpserver/*</td>
<td>OAuth</td>
</tr>
<tr>
<td>Existing /analytics-ws</td>
<td>/analytics-ws/*</td>
<td>Public</td>
</tr>
<tr>
<td>Existing /dataload</td>
<td>/dataload/*</td>
<td>Multi-token</td>
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</table>

#### Roll out strategy:
- Existing PSM deployments only have old URLs
- New PSM deployments have both new and the old URLs
- New OCI deployments only have the new URLs with exception of /analytics, /analytics-ws, /dataload, and /xmlpserver
Remote Data Gateway for Tier 2 sources

Remote Data Gateway available for additional data-source types

Amazon Redshift Database

- Connection Name
- Description
- * Host
- * Port
- * Username
- * Password
- * Database Name

- Use Remote Data Connectivity
- Enable SSL

Impala
Apache Hive

Spark
MySQL
OCI Storage for Replication

Oracle Cloud Infrastructure (OCI) Object Storage can be used as an external storage option for OAC Data Replication.
PBCS Connector (RPD) Enhancements

1. Support for additional properties/columns on dimensions:
   - Generation number, leaf indicator, member path, and alias path columns

2. Support for attribute dimensions

3. Performance improvements

4. Latest Planning ADM driver is pre-installed with OAC

All of these enhancements are enabled only when sourcing from Oracle EPM Cloud Planning 19.08 and Later
Enablement of SSL for the following data sources

- Web Services
- HTTP

You can upload SSL Cert from Upload Center in Admin page and apply to the data source.

**Note:** JDBC has already been enabled for SSL
Publisher Scheduler REST APIs

Scheduled Job operations can now be managed via REST APIs
- Normal Scheduled Jobs
- Bursting Jobs

Online view operations are already available through REST APIs (same as on-prem)

https://docs.oracle.com/middleware/12213/bip/BIPAP/toc.htm

**Note:** The REST API documentation will initially be available on OTN and be later included with OAC REST API documentation
Publisher - Handling Mandatory Parameters

• Now you can define Parameters as Mandatory in the Data Model Editor
  – Select checkbox
• Parameter will be shown with “*” next to the Label at all places
• Validates for empty Parameters
• For both Online & Scheduled Reports
• Ensures a report gets the minimum input data to generate a meaningful report.
• Reduces erroneous report executions
Demo OAC BI Features
Analytics and Data Summit
All Analytics. All Data. No Nonsense.
February 25-27, 2020
Oracle campus in Santa Clara, CA

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Resources and Questions?

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Twitter: @vlamissoftware
Let us know if you want to know about future webinars!

Blog article with links on Getting Started with Oracle Analytics http://www.vlamis.com/blog/2019/7/11/getting-started-with-oracle-analytics
YouTube channel Oracle Analytics from SampleApp Team https://www.youtube.com/user/EvolvingBI/videos
YouTube video playlist on OAC 105.4.0 new features https://www.youtube.com/playlist?list=PL6gBNP-Fr8KW3D0u4GXTvMYsY9NmVtDhv
Course on Oracle Analytics https://www.udemy.com/course/augmented-analytics/