



Fusion Analytics Warehouse in a Nutshell

Edelweiss Kammermann

THE GLOBAL REACH OF IT CONVERGENCE

20+
YEARS

600+
EMPLOYEES

11
OFFICES
GLOBALLY

1,100+
CUSTOMERS

FORTUNE 500
1/3 OF OUR CUSTOMERS

GLOBAL DELIVERY
70+ COUNTRIES



ONSHORE, NEARSHORE AND OFFSHORE PRESENCE

ONSHORE



Chicago, Dallas and Atlanta
Clients Sites

NEARSHORE



Buenos Aires, Argentina

OFFSHORE



Hyderabad, India

Edelweiss Kammermann, Director – AI & Machine Learning

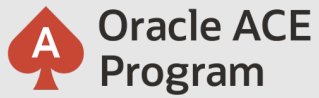


- Analytics, Data Integration & Machine Learning specialist with over 20 years of consulting and project management experience.
- Oracle ACE Director
- Speaker at international conferences: Oracle Open World, Oracle Code, Collaborate, OTN Tour LA, UKOUG Tech & Apps, Analytics and Data Summit, etc.
- Co-founder and VP of Uruguayan Oracle User Group (UYOUG), Director of Education (Latin America Oracle User Community) & Board Member of Analytics and Data Oracle User Community



Uruguay





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Analytics and Data Summit 2023

March 14-16, 2023

Oracle Conference Center
Redwood Shores, California

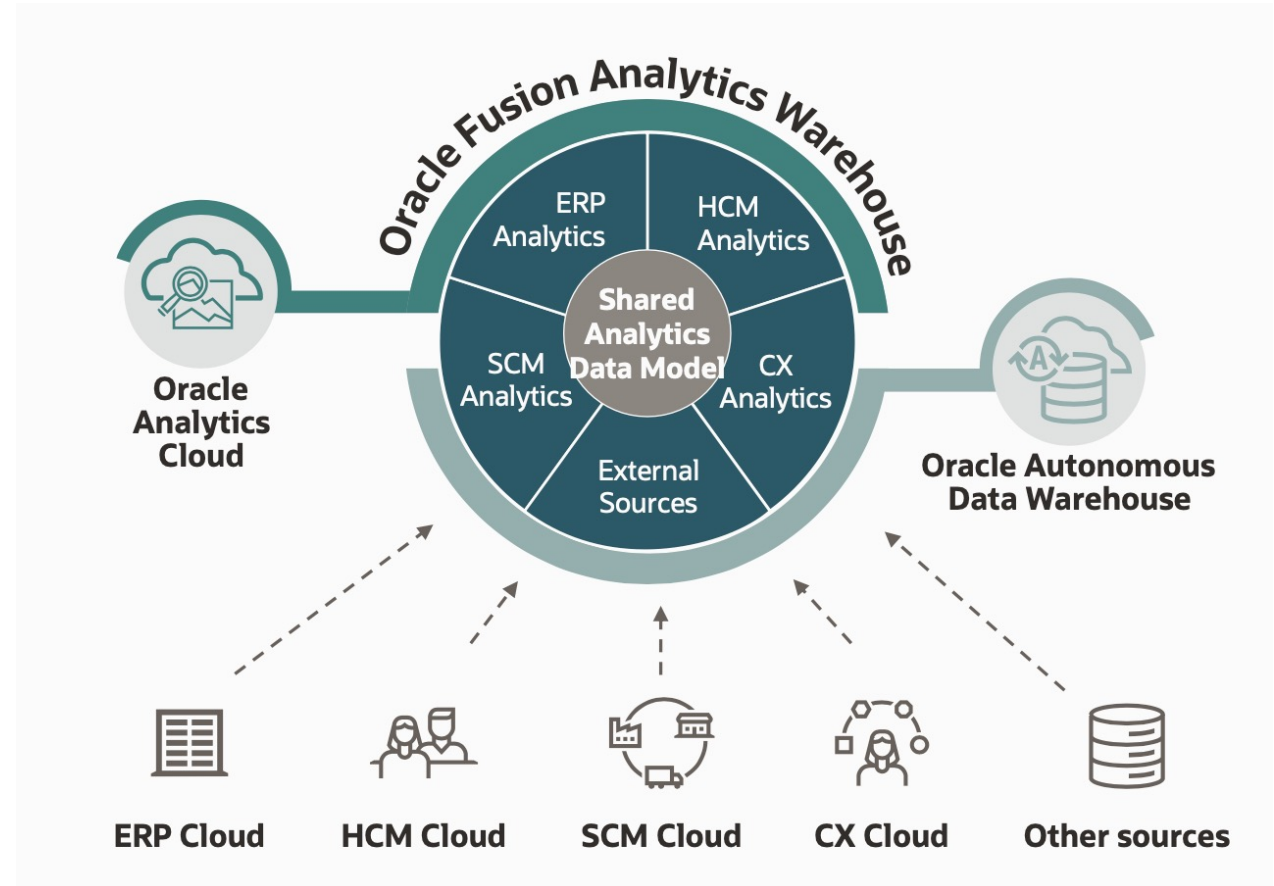
Call for abstracts is open!

www.andouc.org

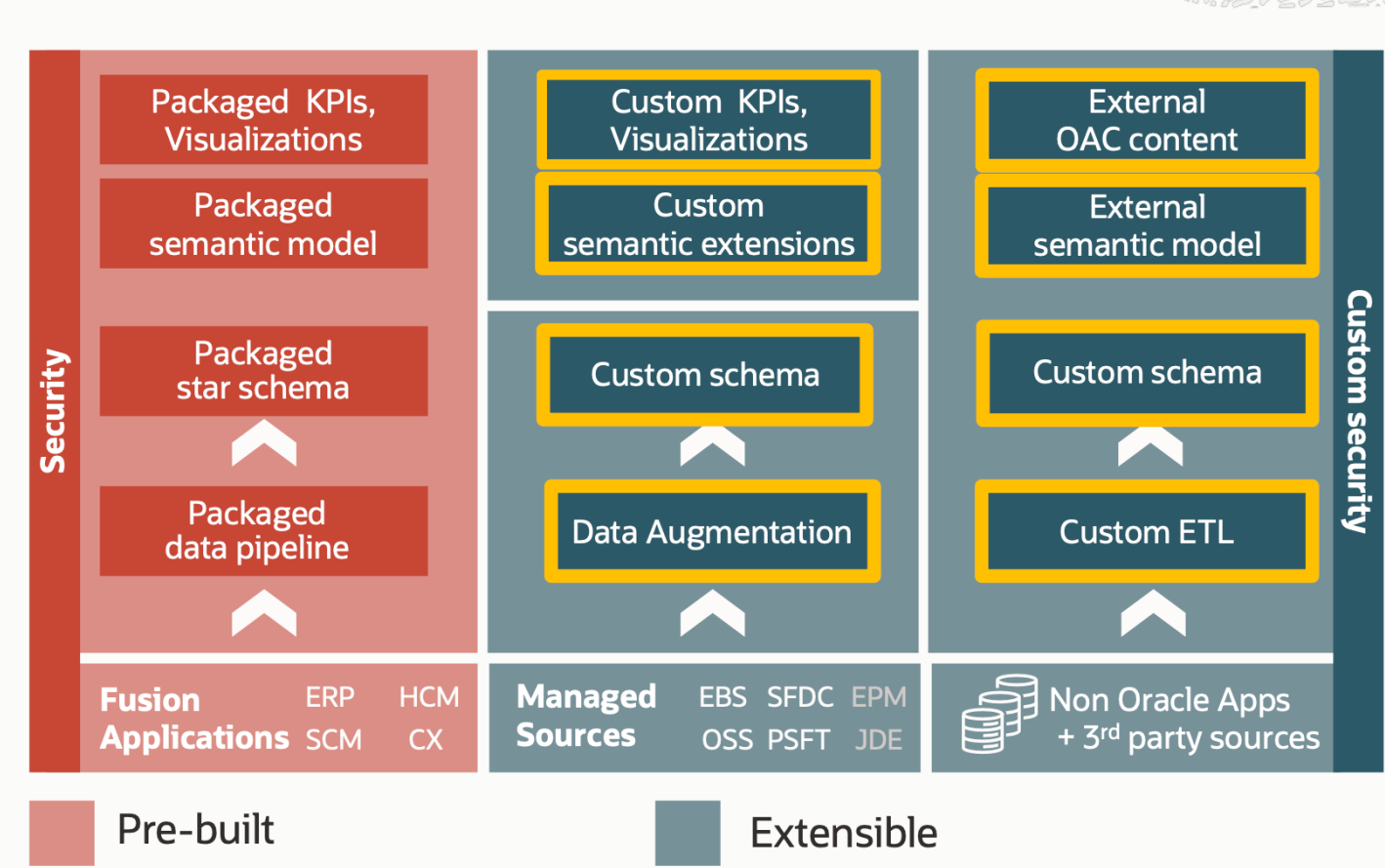


What is Fusion Analytics Warehouse (FAW)?

- Cloud Analytic platform solution for Oracle Cloud ERP/HCM /SCM/CX Cloud
- Prebuilt Content
- Extensible
- Based on ADWC + OAC
- Rapid Implementation



Fusion Analytics Warehouse (FAW) Architecture



Steps to Provision a FAW Instance

1. Activate Oracle Cloud Account & FAW
2. Synchronize Oracle Applications Cloud & Identity Cloud Service
3. Federating IDCS
4. Create FAW Instance
5. Configure FAW
6. Load the Data

The image displays a 2x3 grid of video thumbnails, each representing a step in the provisioning process. Each thumbnail includes a video player interface with a play button and a list of steps. Below each thumbnail is a text box with a title, a brief description, and a link to documentation.

Thumbnail Title	Description
Getting Started with Provisioning Fusion Analytics Warehouse	Learn about the process required to provision your Fusion Analytics Warehouse instance. For more information, see the documentation .
Ordering and Activating Oracle Cloud Account with Universal Credits and Fusion Analytics Warehouse	Learn how to order and activate Fusion Analytics Warehouse using the required Oracle Cloud Account with Universal Credits. For more information, see the documentation .
Synchronizing Oracle Applications Cloud and Identity Cloud Service	Learn how to synchronize Oracle Applications Cloud and Identity Cloud Service so that you can provision Fusion Analytics Warehouse using the data in these systems. For more information, see the documentation .
Federating Identity Cloud Service with Your Oracle Cloud Tenancy	Learn how to federate the Oracle Identity Cloud Service Instance with your Oracle Cloud tenancy to simplify provisioning Fusion Analytics Warehouse.
Accessing Oracle Cloud Infrastructure Using Your Federated Oracle Identity Cloud Service Instance	Learn how to access Oracle Cloud Infrastructure with your Oracle Identity Cloud Service Instance.
Creating Your Fusion Analytics Warehouse Instance	Learn how to create your Fusion Analytics Warehouse instance using information and access from your system setup.

Creating a FAW Instance

The screenshot shows the Oracle Cloud console interface. On the left is a navigation menu with categories like Home, Compute, Storage, Networking, Oracle Database, Databases, Analytics & AI, Developer Services, Identity & Security, Observability & Management, Hybrid, and Migration. The 'Analytics & AI' category is highlighted with a red box. In the main content area, under 'Analytics', 'Fusion Analytics Warehouse' is highlighted with a red box. Below this, the 'Instances in fawtestinstan3 (root) Compartment' page is shown. A 'Create Instance' button is highlighted with a red box. Below the button is a table with one instance listed.

Display Name	Name	Status	Created
oaxprodmgmtuk	oaxprodmgmtuk	Active	Thu, 04 Jun 2020 17:04:29 GMT

Creating a FAW Instance

Create Instance - Analytics Applications

COMPARTMENT 1

fawtestinstan3 (root)

DISPLAY NAME

EXMP-FusionAnalyticDev

NAME ⓘ

FusionAnalyticDev

Name must begin with a letter and not contain any special characters.

DESCRIPTION OPTIONAL

Fusion Analytics development instance

Offerings ⓘ

Subscription configuration displayed.

INTENDED USE

Development/Test

NUMBER OF ERP USERS

20

NUMBER OF HCM EMPLOYEES

1000

Create Instance - Analytics Applications

NUMBER OF ERP USERS

20

NUMBER OF HCM EMPLOYEES 2

1000

Fusion Application Connection

FUSION APPLICATION URL ⓘ

https://fusionanalytics.sample.instance-test.com

USERNAME

FAWService

PASSWORD

.....

CONFIRM PASSWORD

Creating a FAW Instance

Create Instance - Analytics Applications

✓ Fusion application credentials are valid.

Test Connection

3

Autonomous Data Warehouse Administrator Credentials

USERNAME READ-ONLY

ADMIN

PASSWORD

.....

Password must be 12 to 39 characters and contain at least one uppercase letter, one lowercase letter, and one number. The password cannot contain

CONFIRM PASSWORD

Confirm the new password.

NOTIFICATION EMAIL

jane.smith@example.com

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of

[Learn more about tagging](#)

TAG NAMESPACE TAG KEY

None (add a free-form tag)

Fusion Analytics Warehouse » Fusion Analytics Warehouse Details



EXMP-FusionAnalyticDev

OAX PM UK

Update Fusion Connection Update Offerings Update Admin Password Add Tags Terminate

Instance Information Tags

Name: EXMP-FusionAnalyticDev
Version: 20.R2.P1
Created: Thu, 04 Jun 2020 17:04:29 GMT
Compartment: fawtestinstan3(root)

Analytics Application

URL: <https://oaxprodmgmtuk-oaxprodmgmt3.data.analyticsapps.uk-london-1.ocs.oraclecloud.com/ui/oax>

Analytics Cloud

Name: [oaxoaxprodmgmtuk](#)
URL: <https://oaxoaxprodmgmtuk-lrvvktotx4np-ld.analytics.ocs.oraclecloud.com/ui/dv>

OCID: [...v32wc5vxxva](#) [Show](#) [Copy](#)
Intended Use: Development/Test
Number of Subscription ERP Users: 20
Number of Subscription HCM Employees: 1000

Autonomous Data Warehouse

Name: [oax3920438448](#)

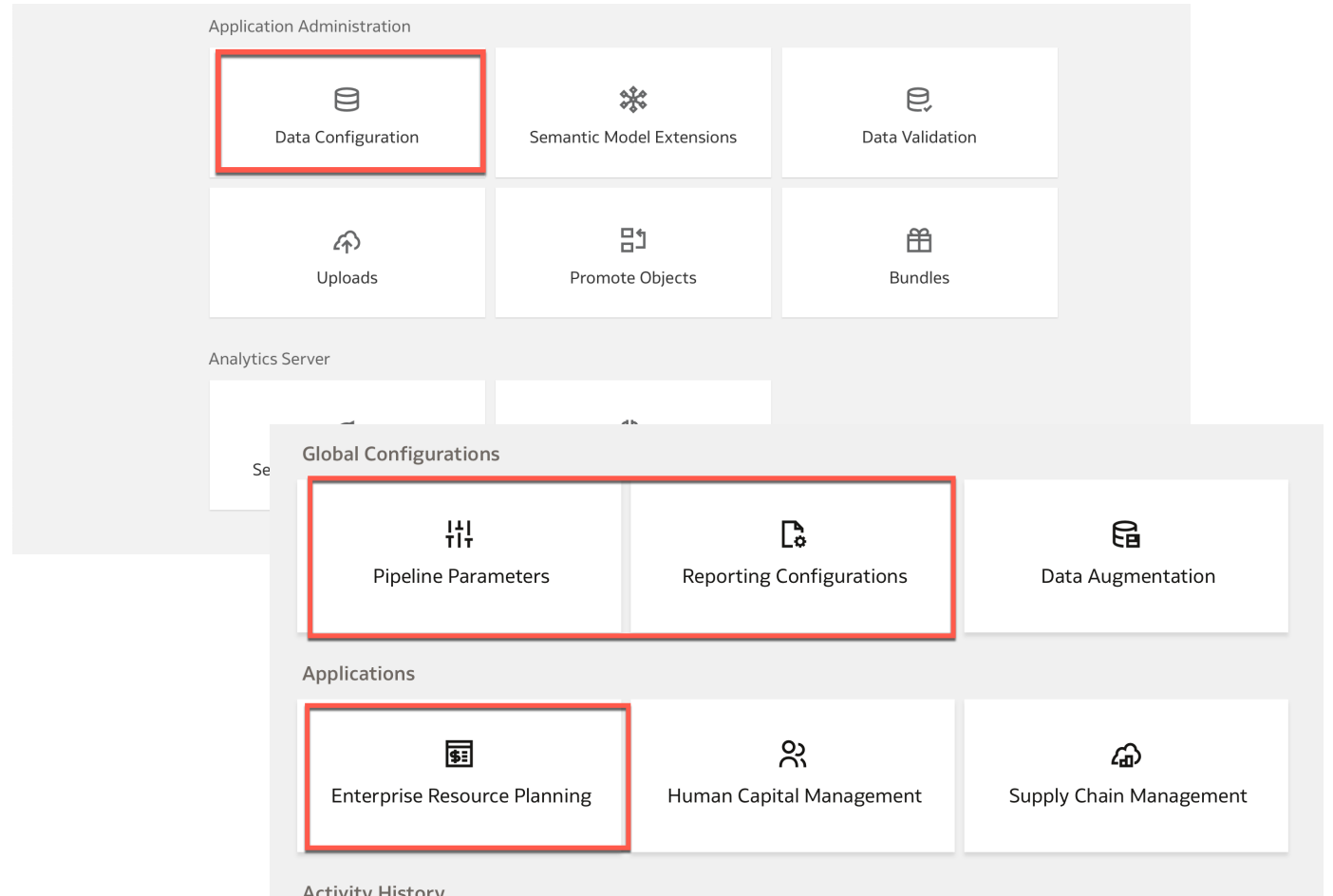
Fusion Application

URL: <https://fusionanalytics.sample.instance-test.com>
Username: FAWService

4

Configure a FAW Instance

- Set Global Configurations
 - Pipeline Parameters
 - Report Parameters
- Create a Plan for each Functional Area
- Activate the plan and load the data



Configure a FAW Instance: Pipeline Parameters

Data Pipeline

Data Pipeline Status Disabled

Details Please update valid fusion credentials


Last Refresh Date 2022-06-05, 2:04:01 AM

Global Parameters

Analytics Language

Analytics Currency

Exchange Rate Type

Initial Extract Date 

Data Refresh Schedule

Interval

Time

TimeZone

Configure a FAW Instance: Report Parameters

The screenshot displays the 'Reporting Configurations' interface, divided into 'Basic' and 'Advanced' tabs. The 'Basic' tab is active, showing various configuration options for reporting parameters.

Global Parameters

- Enterprise Calendar: Gregorian (Gregorian)

Enterprise Resource Planning

Financial Analytics

- Calendar: AccountingMMYY (AccountingMMYY)
- Chart of Accounts: All (ALL) x
- Ledgers: All (ALL) x
- Ledger Sets: All (ALL) x
- Allow Financial Category Upload: No (N)

Human Capital Management

Human Capital Management Analytics

Worker Age Band	Name	Min(Year)	Max(Year)	
	<input type="text" value="Name"/>	<input type="text" value="0"/>	<input type="text" value="150"/>	<input type="button" value="i"/>
	<input type="button" value="+ Add Band"/>			

Tenure Band	Name	Min(Year)	Max(Year)	
	<input type="text" value="Name"/>	<input type="text" value="0"/>	<input type="text" value="150"/>	<input type="button" value="i"/>
	<input type="button" value="+ Add Band"/>			

Performance Band	Name	Min(Rating)	Max(Rating)	
Low		<input type="text" value="0"/>	<input type="text" value="Max Value"/>	
Medium		<input type="text" value="Min Value"/>	<input type="text" value="Max Value"/>	
High		<input type="text" value="Min Value"/>	<input type="text" value="10"/>	

Potential Band	Name	Min(Rating)	Max(Rating)	
Low		<input type="text" value="0"/>	<input type="text" value="Max Value"/>	
Medium		<input type="text" value="Min Value"/>	<input type="text" value="Max Value"/>	
High		<input type="text" value="Min Value"/>	<input type="text" value="10"/>	

Compa-Ratio Band	Name	Min(%)	Max(%)	
Compa-Ratio Band A		<input type="text" value="0"/>	<input type="text" value="Max Value"/>	
Compa-Ratio Band B		<input type="text" value="Min Value"/>	<input type="text" value="Max Value"/>	
Compa-Ratio Band C		<input type="text" value="Min Value"/>	<input type="text" value="Max Value"/>	

Configure a FAW Instance: Plan for Offerings

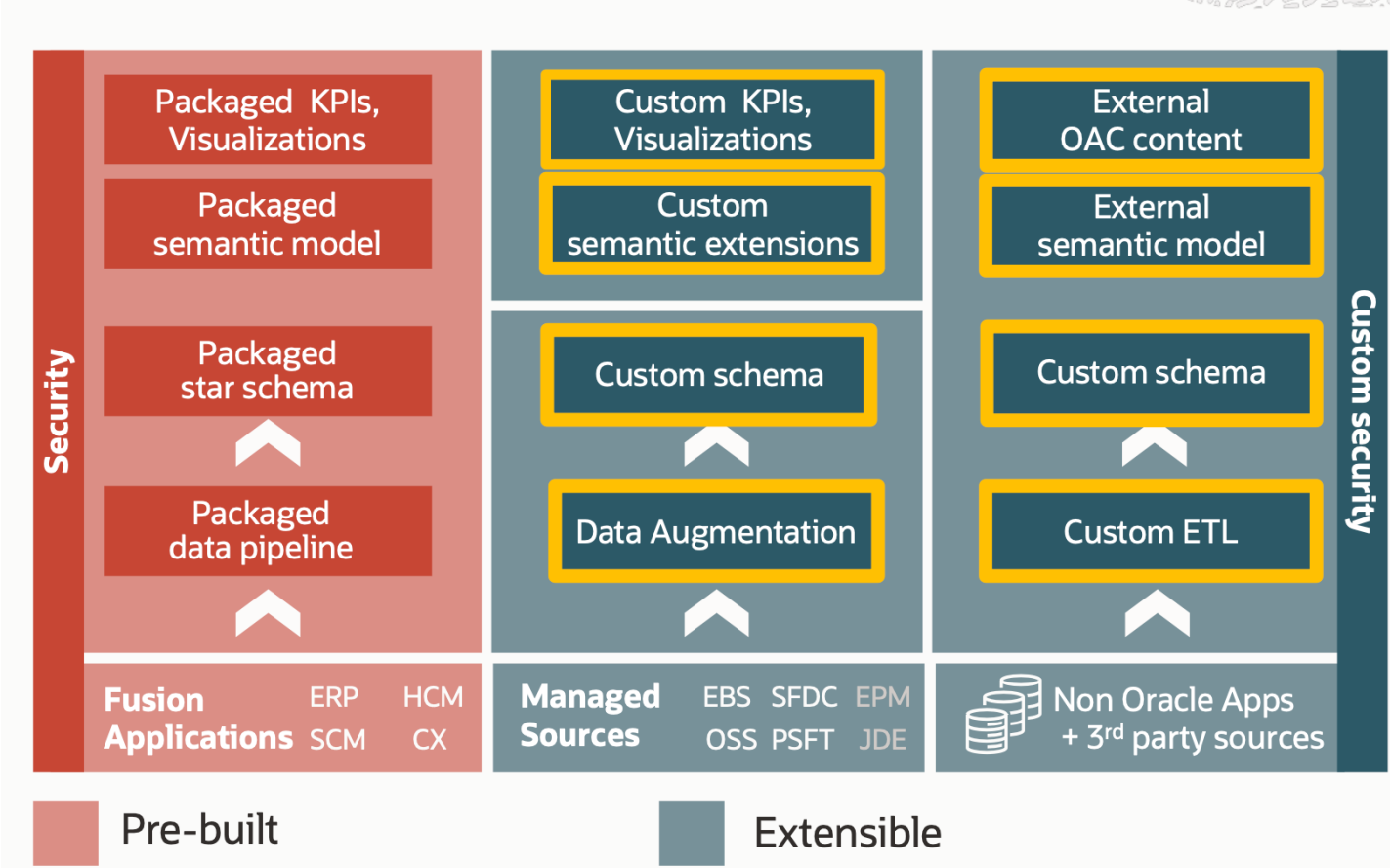
The screenshot displays the configuration interface for a FAW Instance, divided into four steps:

- Step 1:** "Select your application areas to transfer data to the warehouse." A list of application areas is shown, with "General Ledger" selected. A red circle with the number "1" is positioned to the left of this section.
- Step 2:** "Review your selections and save the plan." A summary of data selections and global parameters is displayed. A red circle with the number "2" is positioned to the right of this section. The "Activate" button is highlighted with a red box.
- Step 3:** "Select when to copy data after the plan is activated." The "Scheduled Execution Date" option is selected, with a time zone of "America/Denver" and an extract time of "02/11/21 12:00 AM". A red circle with the number "3" is positioned to the right of this section.
- Step 4:** "Select when to copy data after the plan is activated." (This step is partially obscured by the Step 3 section).

Global Parameters:

Analytics Currency	US Dollar
Exchange Rate Type	AR_Corporate
Analytics Language	American English
Initial Extract Date	2021-01-01

Fusion Analytics Warehouse (FAW) Architecture



Presentation Extensibility

Semantic Model Extensibility

Data Extensibility

Additional Oracle Fusion Cloud Data

External Data

Data Extensibility: Additional Oracle Cloud Fusion Data

- Extend Data Model using Data Augmentation wizard
 - Add a Dimension
 - Extend a Dimension
 - Add a Fact table

The screenshot shows the Oracle Cloud Fusion Data Augmentation wizard. At the top, under "Global Configurations", there are three options: "Pipeline Parameters", "Reporting Configurations", and "Data Augmentation". The "Data Augmentation" option is highlighted with a red rounded rectangle. Below this, under "Applications", there is a progress bar with six steps: 1. Source Selection, 2. Attribute Selection, 3. Column Options, 4. Entity Options, 5. Dimension Keys, and 6. Schedule and Save. The "Source Selection" step is currently active. Below the progress bar, there is a "Cancel" button on the left and a "Next" button with a right arrow on the right. The main instruction reads: "Select a pillar and a source table to add a data augmentation to the warehouse." Below this instruction, there are several dropdown menus. The "Augmentation Type" dropdown is open, showing three options: "Extend Entity", "Create Dimension", and "Create Fact". The "Source Dataset Type" dropdown is also open, showing the same three options. The "Pillar" dropdown is currently empty. The "Source Table Type" dropdown is set to "System Provided". The "Source Tables" dropdown is set to "Select Source Table". A red rounded rectangle highlights the "Augmentation Type" and "Source Dataset Type" dropdowns.

Global Configurations

Pipeline Parameters Reporting Configurations Data Augmentation

Applications

Cancel 1 Source Selection 2 Attribute Selection 3 Column Options 4 Entity Options 5 Dimension Keys 6 Schedule and Save Next →

Select a pillar and a source table to add a data augmentation to the warehouse.

Augmentation Type: Extend Entity

Source Dataset Type: Extend Entity

Pillar: Create Dimension

Source Table Type: System Provided

Source Tables: Select Source Table

Data Extensibility: Additional Oracle Cloud Fusion Data

- Using OAC to create a Connection to Oracle Applications and a new Data set

The screenshot displays the 'Create Connection' dialog in Oracle ADF. The 'Select Connection Type' section shows a grid of connection options, with 'Oracle Applications' highlighted. The configuration panel on the right includes the following fields and options:

- Connection Name:** [Empty text field]
- Description:** [Empty text field]
- Host:** `http://www.example.com:9704/analytics`
- Username:** [Empty text field]
- Password:** [Empty text field]
- Authentication:** Always use these credentials, Require users to enter their own credentials, Use the active user's credentials

Buttons for 'Cancel' and 'Save' are located at the bottom right of the dialog.

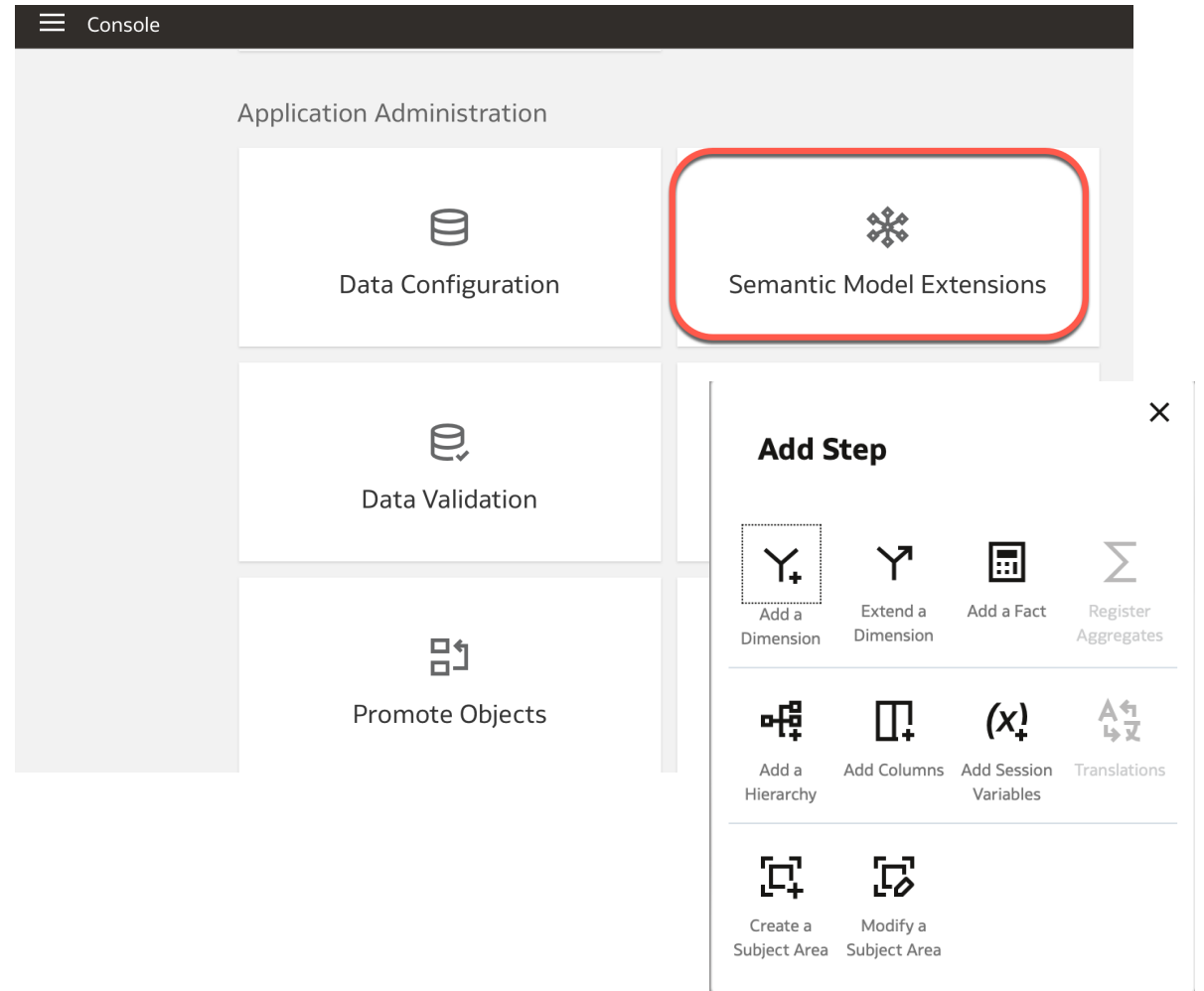
Data Extensibility: Adding External Data

- Adding External Data using OAC
 - Create new connection and Data sets
 - Could blend the new data with existing data
- Adding External Data to ADWC
 - Create a custom schema in ADWC
 - Grant select permissions to the OAX\$OAC schema
 - grant select on <custom_schema-name> to OAX\$OAC*
 - Use ODI in Market Place or a 3rd party ETL/ELT tool to load & transform the data

The image displays two screenshots from the Oracle Cloud interface. The top screenshot, titled "Create Connection", shows a grid of connection types including Oracle Applications, Oracle Autonomous Data Warehouse, Oracle Autonomous Transaction Processing, Oracle Database, Oracle Essbase, Oracle EPM Cloud, Oracle NetSuite, Oracle Service Cloud, Oracle Talent Acquisition, Amazon EMR, Amazon Redshift, Apache Hive, DB2, Dropbox, and Google Analytics. The bottom screenshot shows the Oracle Cloud Marketplace search results for "oracle data integrator". The search results include "Oracle Enterprise Data Quality on Tomcat", "Oracle Enterprise Data Quality on WebLogic", and "Data Integrator: Classic".

Semantic Model Extensibility

- Extend Semantic Model using Extension Wizards to:
 - Add a Dimension
 - Extend a Dimension
 - Add a Fact table
 - Create a SA
 - Modify a SA
- FAW RPD cannot be accessed using Admin Tool



Presentation Extensibility

- Create Custom:
 - KPIs
 - Cards
 - Decks
 - OAC Projects
 - OAC Analyses
 - OAC Reports
 - OAC Dashboards

The screenshot displays a dashboard interface with a blue header bar containing navigation tabs: < force Sales, Business Resilience, My Working Capital, Workforce Overall, Spend, Workforce Analysis (selected), and Workforce Management. The main content area is divided into several cards:

- Headcount by Gender:** A bar chart showing headcount for 2018, 2019, and 2020. Total headcount is 2.00K, which is 76.9% of the target. A year-over-year change of +1.27% is noted.
- Headcount By Age Band:** A grouped bar chart showing headcount across different age bands for 2018, 2019, and 2020. Total headcount is 2.00K.
- Headcount by Seniority:** A pie chart showing the distribution of headcount by seniority band. The largest band is 27.54%, followed by 25.29%, 22.19%, and 3.00%.
- Compensation by Age B...:** A bar chart showing compensation levels across different age bands. Total compensation is \$151M.
- Performance by Gender:** A horizontal bar chart showing performance metrics for 2020Q3. Total headcount is 2.00K, 76.9% of target.
- Compensation by Comp...:** A scatter plot showing compensation levels across different compensation categories. Total compensation is \$151M, 100.0% of target.
- Potenti:** A list of potential KPIs to add to the deck, including AP Average Days on Hold, AP Average Payment, AP Average Payment Days, AP Avg Days Current, AP Avg Days Outstanding (highlighted), AP Avg Days Overdue, AP Current Due, AP Current Due to Total Outstanding %, AP Current Invoices Count, AP Days Payables Outstanding, and AP Discount Lost.

An "Add Card" dialog box is open, showing a search bar for "Search KPI names and tags" and a preview of the selected card, "AP Avg Days Outstanding", which shows a value of 616 for 2020Q3. The dialog includes "Cancel", "Customize Card", and "Add Card" buttons.

Additional Information

- FAW Roadmap

<https://www.oracle.com/business-analytics/applications-roadmap.html>

- FAW Documentation

<https://docs.oracle.com/en/cloud/saas/analytics/index.html>

- FAW Blog

<https://blogs.oracle.com/analytics/category/ac-oracle-fusion-analytics-warehouse>



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A large, grey, curved swoosh graphic that frames the 'Thank you!' text.

Thank you !

