EPM Strategy & Roadmap
Focus: On-Premises

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Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Agenda

Oracle's overall applications strategy

EPM strategy:

- Where are we today

- Product strategy for on-premises

- Hybrid mode

Q & A

Oracle's Radical Transformation

> *Make it easier & faster to adopt new innovation*
>
> *Become easier to do business with*
>
> *Provide greater predictability*

What We're Hearing

Our Cloud Model

Oracle Cloud: Operational Summary

40,000+ Devices
600 PB+ Storage

19 Tier 4 Data Centers
New: Toronto, Frankfurt, Calgary, Munich

31 Billion+ Transactions/Day

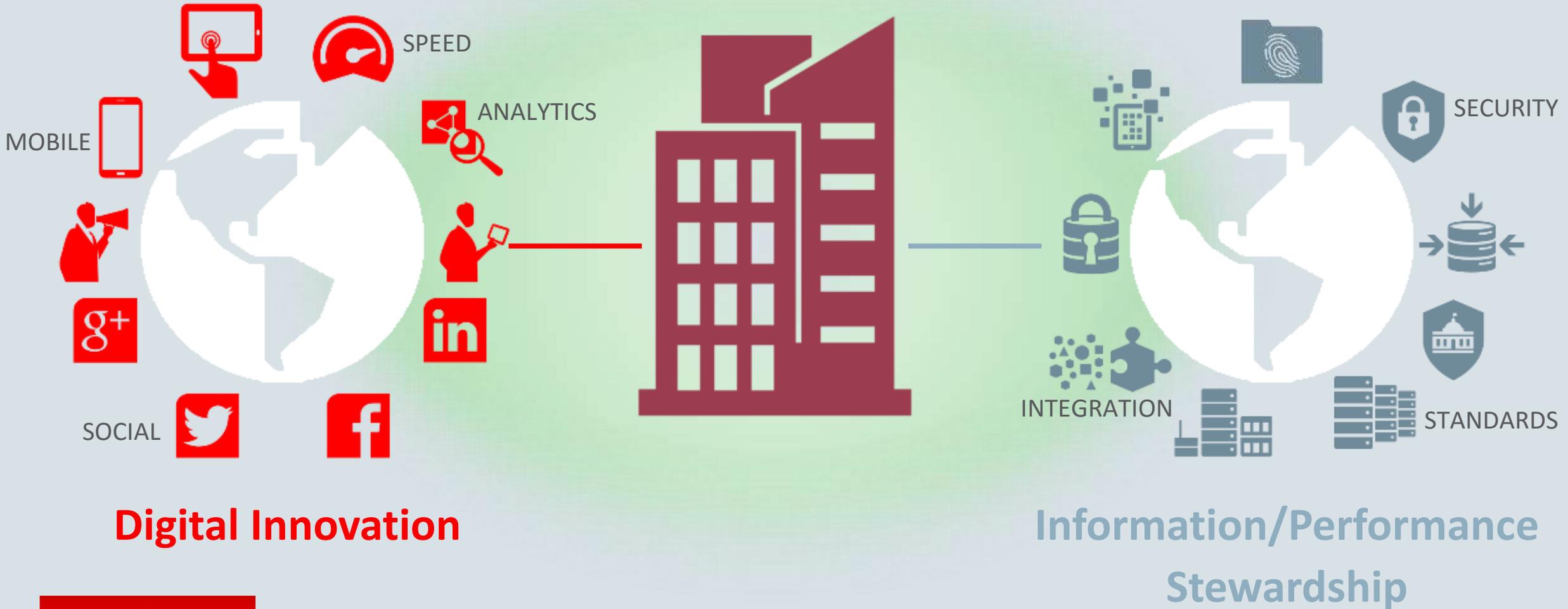| Defense in Depth Security & Compliance	24x7 Monitoring and Support	State of the Art Facilities	15,000 Global Support Personal, 27 Languages	99.5% Availability Power & Cooling

Reality: Businesses are Caught Between Two Worlds

SPEED

ANALYTICS

MOBILE

SECURITY

SOCIAL

INTEGRATION

STANDARDS

Digital Innovation

Information/Performance Stewardship

Oracle's Strategy Brings These Worlds Together

MODERN BUSINESS
practices for every function
in your enterprise

MODERN CLOUD
that is personalized,
connected and secure

PRACTICAL PATH
to the cloud for customers
to achieve business goals

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EPM Today

- Focus on financial performance management
- Growing mindshare for strategic value of EPM
- Cloud is opening up broader adoption

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Where the opportunities are…

- Enabling Business Agility
- EPM for every function, not just Finance
- Alignment, Collaboration and Transparency

New Planning Imperative

Fact-based Planning,
Aligned Across the Enterprise

▶ Develop agile planning processes in every function and respond effectively to business change

▶ Connect and align operational planning processes with financial planning

▶ Create a culture of fact-based planning across the entire organization

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New Close Imperative

Confident Financial Close Supporting Every Need

▸ Leverage automation for all aspects of the close, dramatically reducing the time and costs

▸ Provide an extensible framework to cover today's and tomorrow's reporting demands

▸ Enable a culture of fact-based decision making across the entire organization

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New Reporting Imperative

Narrative Reporting for Informed Decisions in Every Function

Combine System-of-record Data with Rich Narrative Text to capture the full story

Tap into the wisdom across the entire organization through secure collaboration

Address the needs of Management Reporting and External Disclosures

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EPM Cloud: Comprehensive. Proven.

2014-15

- Planning and Budgeting

- Narrative Reporting

2015-16

- Account Reconciliation

- Financial, Capital, Workforce & Project Planning modules

- Financial Consolidation & Close

Today

- Profitability & Cost Management
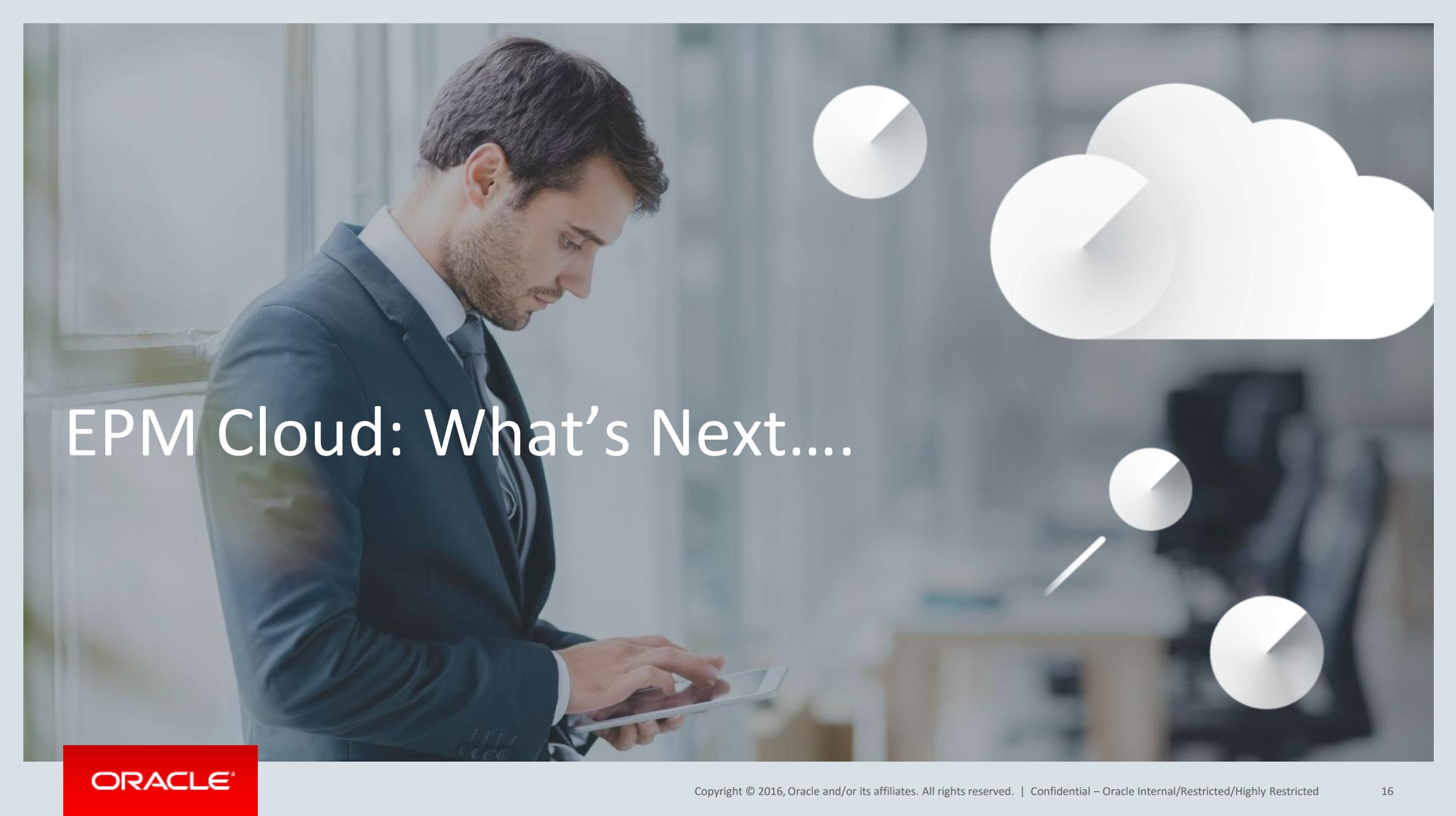
2100+ Customers
100+ Go-lives Each Quarter

1200+ Customers

500+ Customers

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Select Oracle EPM Cloud Customers

And more …

EPM Cloud: What's Next….

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New EPM Cloud Capabilities in the next 12-18 Months

Account Reconciliations Cloud Service:

Transaction Matching

Tax Reporting Cloud Service

Dimension Management Cloud Service

EPBCS: Strategic Modeling

EPRCS: XBRL

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EPM On-premises: What's Next….

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On-premise Product Updates

- Plan to release a series of product specific PSU(s)
  - Incremental features
  - Defect fixes
  - Independent releases by product
- Thematic in nature
  - Introduce relevant cloud Innovations
  - Evolution to a simpler architecture
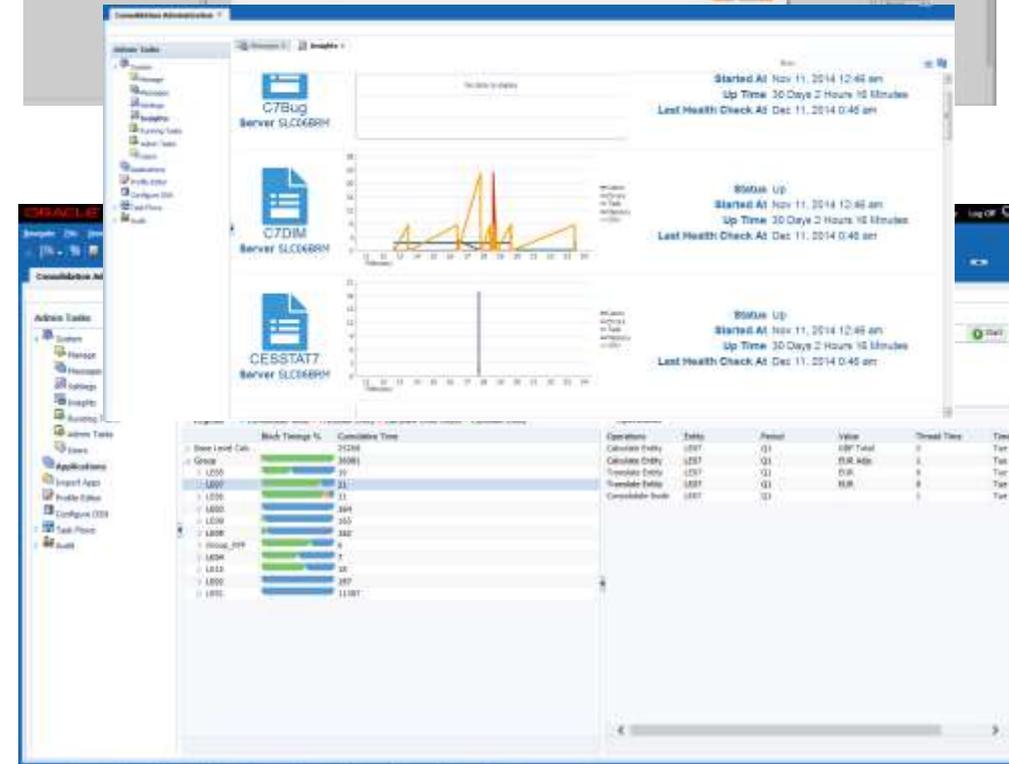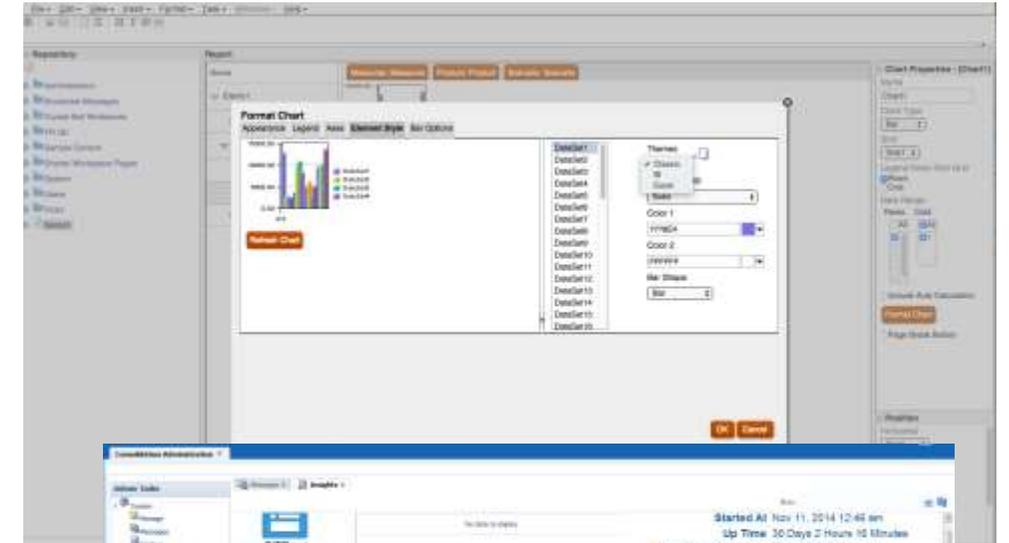 - Focus on Usability

Introduce Relevant Cloud Innovations

- Operational simplification and automation
  - Lifecycle management
  - Automation scripts and utilities
- Deployment accelerators
  - Configuration wizards
  - Pre-built content
- Experience enhancements
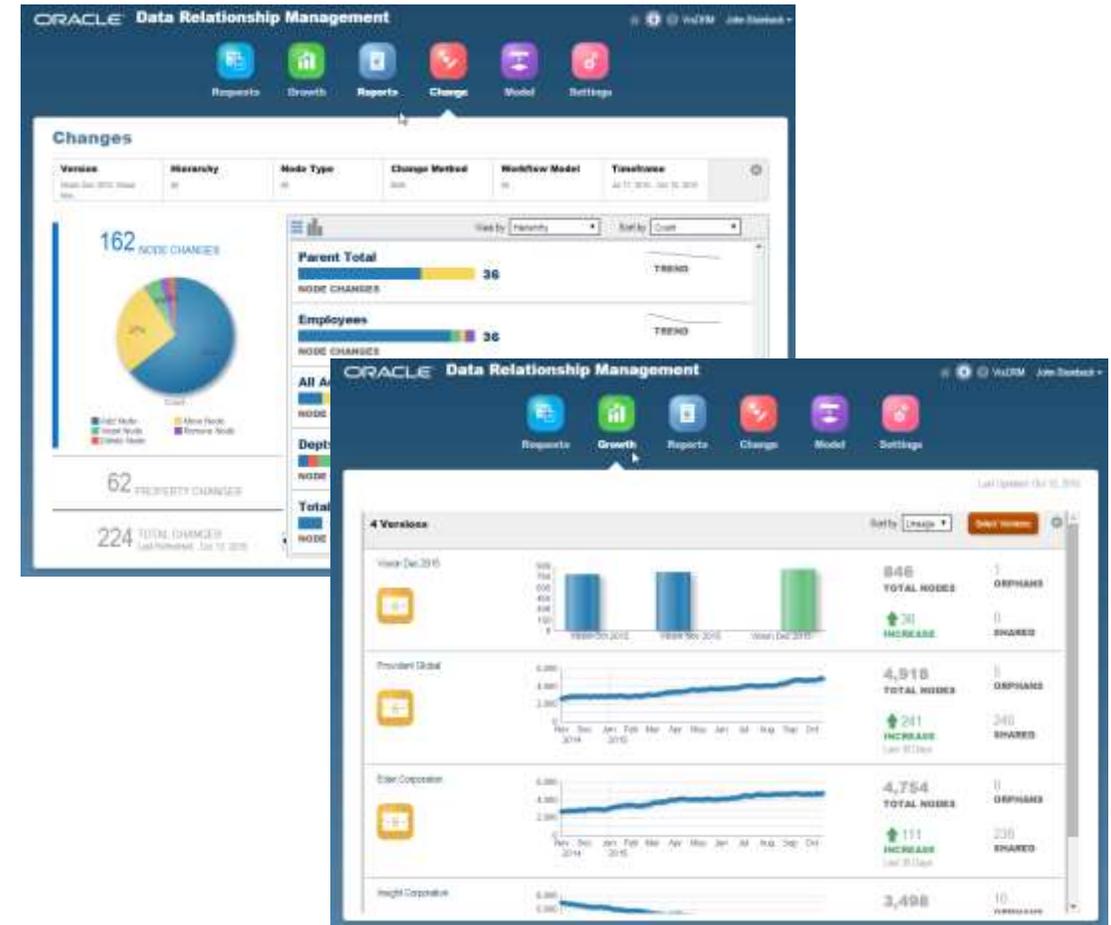 - UX improvements
  - User assistance

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Simpler Architecture

- Ease of maintenance
  - HFM introduction of Rules Profiling & Insights
- De-emphasis of Windows Clients
  - Functional parity →Adoption →Deprecation
  - FR web based studio
  - HFM web based metadata editor
  - Essbase web based modeling UI

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Usability

- Embedded Analytics & Simplified UI
  - HFM : Forms/Grids displayed as charts
  - Planning : Sandboxing
  - Planning : Valid Combinations
  - Planning Modules : SUI Support
  - DRM: SUI for Analytics
  - HPCM: SUI for Analytics

Oracle Applications: Current Release and Roadmap

EPM Applications: On-premise

Release 11.1.2.4

Hyperion Planning
- Spreadsheet like Interactivity with larger data sets
- Member on the fly
- Predictive planning enhancements

Hyperion Financial Management
- HFM on Exalytics (Solaris and Linux)
- Significant performance improvements
- Simplified Deployment architecture
- Optimized user interface

FDMEE
- Data sync between EPM apps, Migration utility from FDM

FCM
- Prebuilt reports for ARM and CM, Custom Report writer, Supplemental data collection

Hyperion Tax Provision
- Smart View-based Maintenance Wizard, Statutory Balance Sheet Approach (IFRS), Current tax Payable Analysis, Country-by-Country template, Loss/Credit Automation

Data Relationship Management
- PBCS integration, DRG enhancements, DRG mobile approvals

Profitability & Cost Management
- New Ledger model type for expanded coverage of management reporting, Parallel calculation improvements for performance
- Operational Transfer Pricing solution

What's Next
0-12 month planning cycle

Hyperion Planning
- Enhanced user experience: User Interface enhancements, Valid Combinations, Excel Type Grid capabilities
- Sandboxing, Excel based grids with formula and formats, Write back enabled dashboards, Integrated Real Time Reporting, Advanced member function support

Hyperion Financial Management
- Insights and Rules Profiling, Web based metadata editor, Copy Application Utility
- Enhanced visualizations: Forms /Grids as charts
- Smart View based Journal module

FDMEE
- Hybrid deployments, Universal data adapter, DRM integration

FCM
- Archiving , Updated rules configuration, Cloud migrations utility

Hyperion Tax Provision
- Mergers & Acquisitions, Valuation Allowance Automation, FIN48 Set of Books, additional reports

Data Relationship Management
- DRM Analytics: pre-built dashboards and reports
- Integrations: Financials Cloud, EPBCS, FDMEE

Profitability & Cost Management
- Built-in analytics, FCM integration, Performance enhancements

Financial Reporting
- Web based FR Studio & new charting engine

Future Directions
Post 12 month planning cycle

Hyperion Planning
- Enhanced User Experience: Build from scratch dashboards, Charts and conditional formats from Excel
- Predict model drivers, Web based predictive planning, Forecast Simulation and Optimization, Models built from user's Excel templates

Hyperion Financial Management
- Real time consolidations
- Expanded impact analysis for Journals
- Archiving of audit tables
- Updated intercompany and journal reporting

FDMEE
- Cloud to cloud integrations, Support for all new EPM cloud apps, Loading text & security for cloud apps

FCM
- Transaction matching

Hyperion Tax Provision
- Upgrade automation enhancements, Apportionment calculation

Data Relationship Management
- Integrations: FCCS, BICS
- DRM Analytics: additional reports & dashboards

EPM Common Infrastructure
- Adoption of FMW 12c, including platform certifications
- EPM common repository simplification

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HFM 11.1.2.4.200 – Available Now

- Journals Workbench
- HFM Insights
- Rules Profiling
- Charts/Graphs – Forms/Grids
- Import application
- DB hardening – RAC and network connectivity

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HFM 11.1.2.4.300 – Expected 2017

- Expanded Dashboards
- Archiving
- Web based metadata
- Add'l Insights statistics
- Performance improvements – SV, DB batch processing, etc.
- Automatic Consolidations
- Improvements in Journals SV extension (e.g. run report)

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Oracle HFM: Current Release and Roadmap

June 2016

Release 11.1.2.4
Feb 2015

- Expanded platform support for Exalytics platform
- Massive performance improvements for any platform
  - Consolidations
  - Data loads
  - Maintenance
  - Security
  - Data Queries
  - End User Interactivity
- Oracle Diagnostic Logging (ODL) for faster troubleshooting
- Calc Status updates for smaller database sizing
- Web profile editor
- Metadata Merge Utility
- Emdedded OFMA

What's Next
0-18 month

- Journals Workbench
- HFM Insights
- Rules Profiling
- Charts/Graphs – Forms/Grids
- Import application
- DB hardening – RAC and network connectivity
- panded Dashboards
- Archiving
- Web based metadata
- Add'l Insights statistics
- Performance improvements – SV, DB batch processing, etc.
- Automatic Consolidations
- Improvements in Journals SV extension (e.g. run report)

Future Directions
Post 18 month

- Journals Module Enh
  - Attachments
  - Impact Analysis
- Intercompany Reporting Enh
  - By Custom Dimension
  - Reporting from FR/Smart View
- Automatic Consolidation Enh
  - Expand for other calc types
  - Optimizations
- Reporting
  - EPRCS auto-integration
- Platform updates

Oracle FCM: Current Release and Roadmap

June 2016

Release 11.1.2.4
Feb 2015

- Simplified Administration Interface
- Fast form load and navigation
- Quick cell navigation and scrolling within grids
- Instant calc and instant aggregations
- Excel Type Grid capabilities
- Custom printing of forms
- Hybrid BSO Essbase Support (licensed)
- End User driven dashboards
- Excel Formatting in Planning Forms
- Job Scheduler
- Member on the Fly
- Predictive Planning: Quick Predict
- Predictive Planning: Chart Series Manipulations
- **Project Financial Planning**
  - Incremental deployment
  - Vendor dimension
  - P6 Integration

What's Next
0-18 month

- ARM
  - Enhanced Re-Open and Rejection of Reconciliations
  - Substantiation of Balances on All Formats
  - Edit Transactions Directly on List
  - Enhanced Action Plan
- SDM
  - HFM Cell Validation
  - Reassign Users
  - Currency translations
  - Prepopulated rows
  - Simplified data set load
  - Smartview View All
  - FDMEE Integration
- CM
  - Change Ownership of Running Tasks
  - Delete Tasks on Open Schedule
  - Clearer Save vs. Submit of Tasks
  - Disable Submit button for tasks in locked schedule

Future Directions
Post 12 month

- ARM
  - Easier Grouping of Accounts into Recs
  - Enhanced Sync of Open Items Across Periods
  - Transaction Matching
- CM
  - Import User Entry Fields to Running Tasks
  - Maintain Parent/Child Relationships Across Templates
  - Better Error Reporting on Nested Templates
- SDM
  - Instruction Enhancements
  - Calculated Value Override
  - Dimension Referencing Another Dim
  - Dimension Reference Override
  - Logical Delete

Oracle Hyperion Financial Reporting
Current Releases and Roadmap

11.1.2.4
January 2015

- **EPM Innovation**
  - PSPB Decision Package Text Functions
- **Enterprise Readiness**
  - Support for Planning and HFM thin ADM drivers
  - Ability to Edit Annotations

Cloud & On-Premises
March 2016 (16.03 & 11.1.2.4.701)

- **EPM Innovation**
  - Web-based report authoring (Phase 1)
  - Updated Charting Engine (Phase 1)

Future Direction

- **EPM Innovation**
  - Web-based report authoring (Remaining items)
  - Charting Engine (Remaining items)
  - Enhanced support for Books and Batches in MS Office
- **Enterprise Readiness**
  - Updated Repository to replace R&A / Foundation Repository

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FR Web Studio: Phase 1

Released: March 2016

- Create, insert and position objects (grids, charts, image, textbox)

- Grid dimension layout, member selector

- Set object properties

- User & Grid POV

- Format cells, rows, columns

- Header / footer, text box with text functions

- Insert data, formula, text rows and columns

- Change database connection

- HTML and PDF output

- Charting
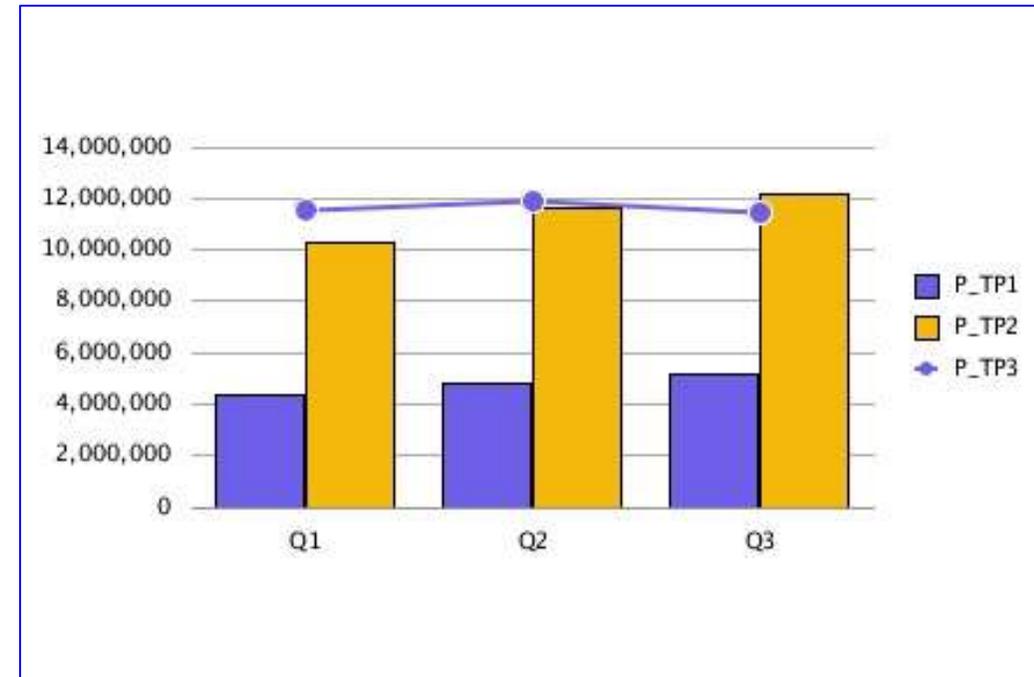
- Save Reports and Snapshots

- Edit one report at a time

FR Web Studio: Post Phase 1

Monthly phased releases through Fall/Winter 2016

- Conditional formatting and suppression
- Related content
- Auto Calculations
- Save Objects
- Sorting
- Row/Column templates

- Edit multiple reports at the same time
- 'Same As' member selection function
- Grid Format Cell > Replace

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Updated Charting Engine

- Utilizes an updated chart engine for an overall improved charting presentation and user experience.
  - Replaces the previous charting engine

- Planned phased release approach:
  - Phase 1: March 2016 (16.03 / 11.1.2.4.701)
    - Current chart engine functionality, additional pre-set color themes
  - Phase 2: Monthly phased releases through Fall 2016
    - Additional chart properties
    - Better control over chart formatting, axes and legends

Considerations to support Hybrid deployments?

1. **Reporting**
2. **Securely communicating between on-premise to cloud**
   - Data
   - Metadata
3. **Identity Management & Security**
4. **Other Considerations**
   - Highly Integrated Processes
   - Approvals

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Reporting

Considerations for Hybrid Deployments

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The Method of Deployment is Transparent for Reporting

- Smart View supports hybrid today

Utilities

Considerations for Hybrid Deployments

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The 'Bridge' between On-Premise & the Cloud

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EPM Utilities
Data - Metadata - Process

Secure

Automated

Easy

1. EPM Utilities:
   - PBCS/E-PBCS = "EPM Automate"
   - EPRCS = "File Transfer Utility"

2. Data, Metadata, & Process

3. Alternative (REST APIs)

How to Use EPM Automate
in Oracle Planning and Budgeting Cloud

Oracle EPM Tutorial Series

YouTube Channel: Oracle EPM & BI Tutorials

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Data

Considerations for Hybrid Deployments

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Options for Data Integration

1. Native data load features in PBCS / EPRCS

2. Using 'Data Management' (PBCS)

3. Certified Integrations (e.g. PBCS to Fusion Financials Cloud Service)
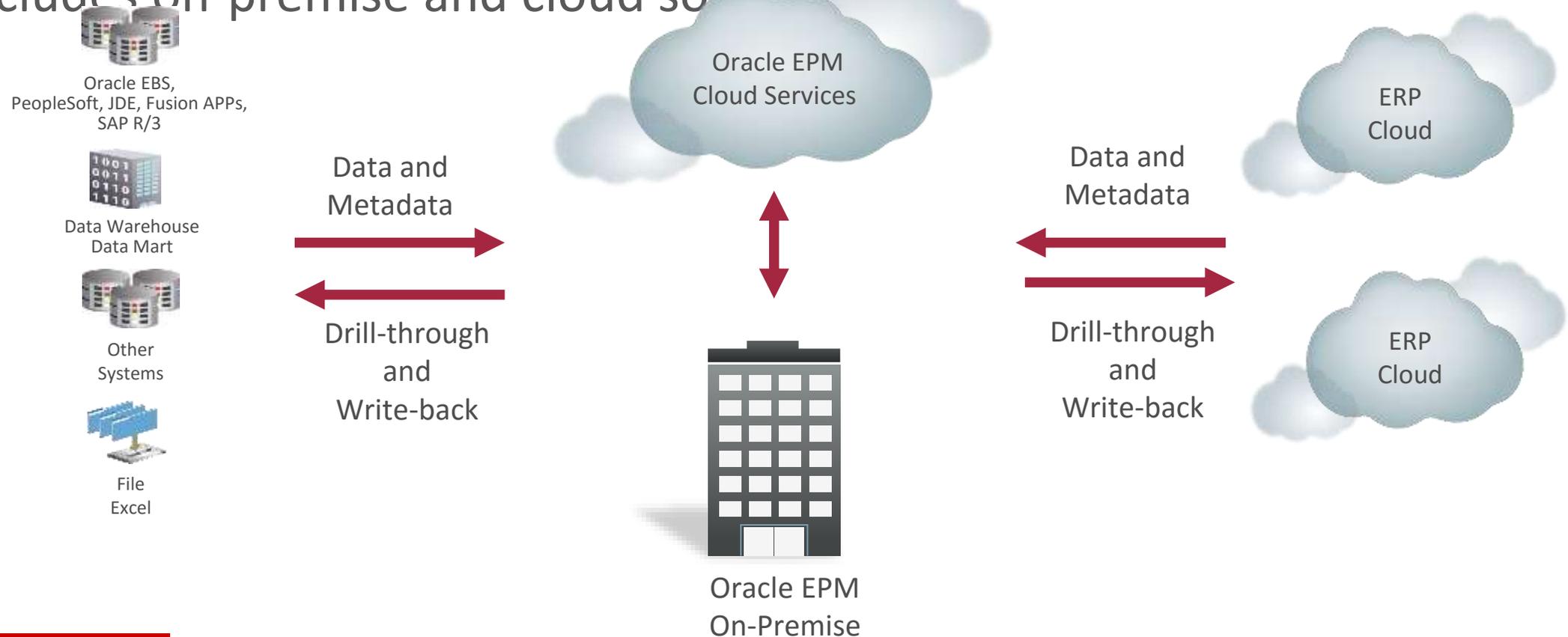
4. REST API (currently PBCS, ERPCS on roadmap)

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Integration Overview

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Challenges when integrating all of the "pieces"

- Business Issues
  - Disparate source systems
  - Inconsistent account structure
  - Errors in data and metadata collection
  - Financial restatements
  - Weak controls
  - Lack of visibility into processes and controls
  - Synchronization between ERP and EPM

- Typical Requirements:
  - Collection and transformation of data
  - Repeatable processes
  - Documented Internal controls
  - Auditing with drill-through
  - Writing back to source systems
  - Typically called "Financial Data Quality Management" or FDM

- Benefits to following a well defined process:
  - Increased confidence in data
  - Decreased cost of compliance
  - Elimination of data integrity risks
  - Documented and defined repeatable processes
  - Improved cycle times during periodic processing

Typical Data Flow between ERP and EPM systems

- Includes on-premise and cloud sources

Oracle EBS, PeopleSoft, JDE, Fusion APPs, SAP R/3

Data Warehouse Data Mart

Other Systems

File Excel

Data and Metadata

Drill-through and Write-back

Oracle EPM Cloud Services

Oracle EPM On-Premise

Data and Metadata

Drill-through and Write-back

ERP Cloud

ERP Cloud

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Financial Data Quality Management, Enterprise Edition

Oracle EBS, PeopleSoft, JDE, Fusion APPs, SAP R/3

Data Warehouse Data Mart

Other Systems

File Excel XML

Data & Metadata

Meta-data

Data

Financial Close

Planning & Forecasting

Strategy Management

Profitability Management

Web Interface

Financial Reports

Microsoft Office

Drill-Through & Write-Back

* Metadata supported for EBS and PSFT

Hybrid Implementation Support – 11.1.2.4.200

- Virtually any source and target
  - PBCS included
- Non traditional use cases
  - Load ERP Cloud GL Data
- Support cloud to cloud with rich FDMEE features
  - Release 16.07 or later

Financial Close
Planning & Forecasting
Strategy Management
Profitability Management

Oracle EBS, PeopleSoft, JDE, Fusion APPs, SAP R/3

Data Warehouse Data Mart

Other Systems

File Excel

FDMEE

Future

ERP Cloud

EPM Cloud

Open Interface

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FDMEE and DRM Integration – 11.1.2.4.200

- Extract hierarchies from EBS and PSFT

  – Select DRM as target for metadata rule

- Load mapping rules from DRM to FDMEE

  – Generate "Explicit" mapping rules from DRM

  – Load directly to FDMEE

  – Modify seeded DRM export as needed

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Hybrid Integration Overview

Oracle EBS, PeopleSoft, JDE, Fusion APPs, SAP R/3

Data Warehouse Data Mart

Other Systems

File Excel

Other Cloud Services
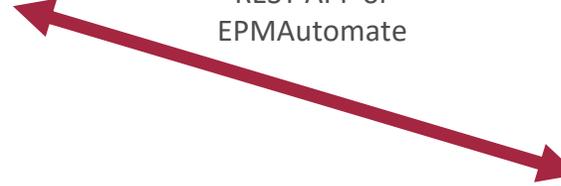
ERP Cloud

Requires full use ODI. Upload to PBCS with REST or EPMAutomate (Drill possible)

ODI

REST API or EPMAutomate

FDMEE 11.1.2.4.20 0

EPM Cloud

Data Management

Pod-2-Pod 16.07
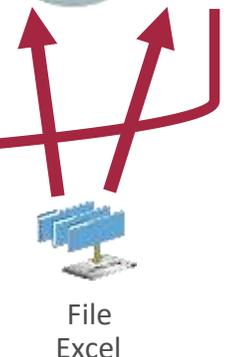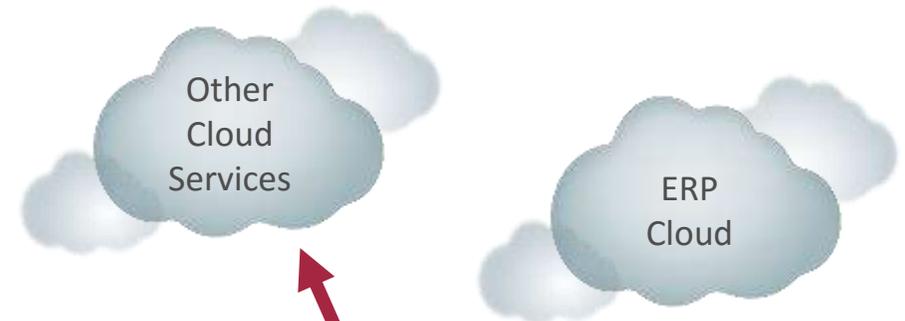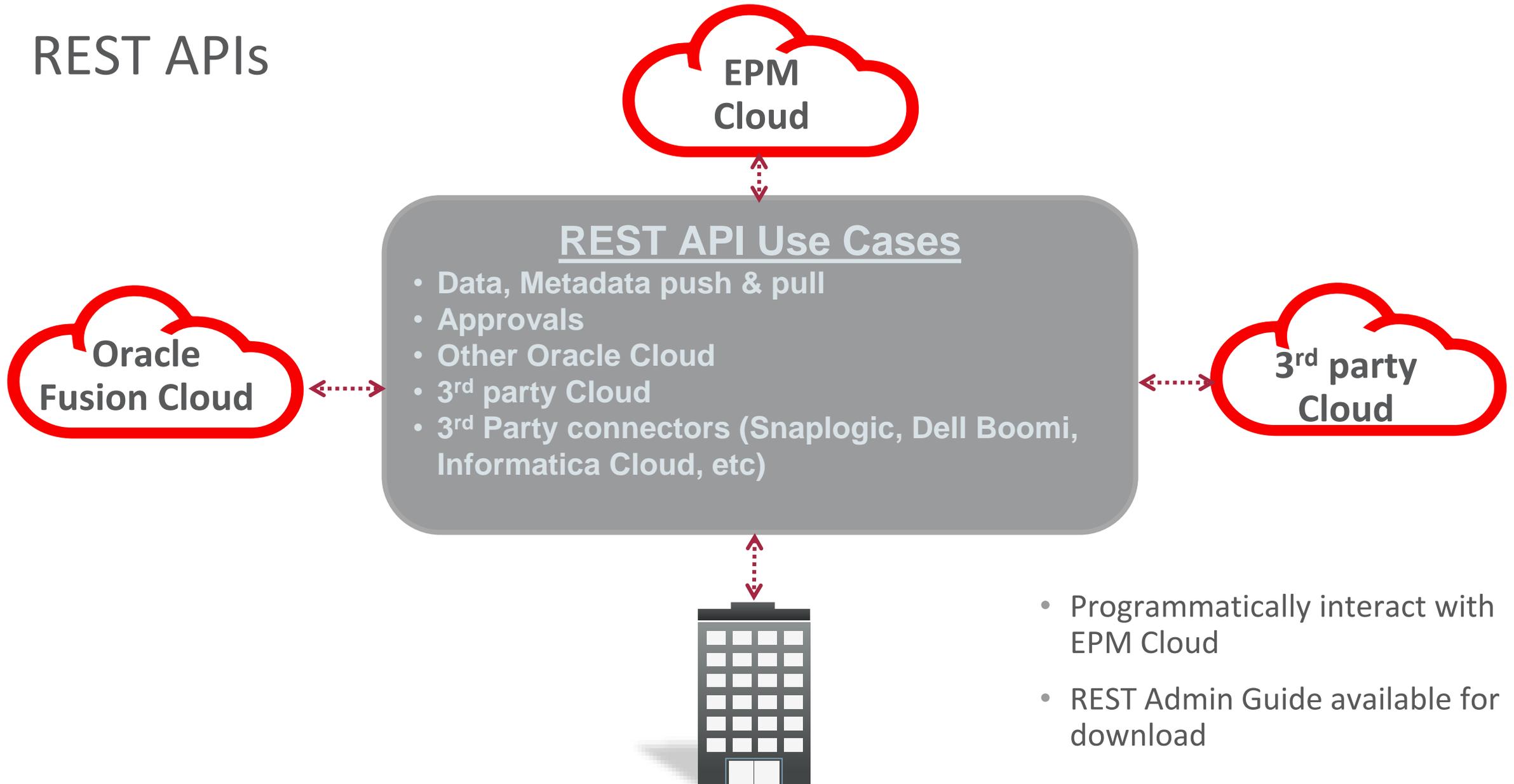
Requires FDMEE license. Direct integration from on-prem to PBCS. Load, write-back, drill, scripting

Drill through to an on-prem URL is supported by data management without on-prem FDMEE

File Excel

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REST APIs

EPM Cloud

REST API Use Cases

- Data, Metadata push & pull
- Approvals
- Other Oracle Cloud
- 3rd party Cloud
- 3rd Party connectors (Snaplogic, Dell Boomi, Informatica Cloud, etc)

Oracle Fusion Cloud

3rd party Cloud

- Programmatically interact with EPM Cloud
- REST Admin Guide available for download

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Identity Management
Considerations for Hybrid Deployments

Identity Management & Security

Oracle EPM Cloud

Oracle Federated Identity Management

On-premise Directory Service (SAML)

- ✓ Oracle Identity Management provides single-sign-on (SSO) across hybrid deployments
  - Certified for ADFS 2/3, OAM and Shibboleth
  - Generic SAML 2.0 service provider

- ✓ Can accept assertions from a customer directory service and authenticate the user for all EPM cloud services

- ✓ IP White-listing / Black-listing provides 'two-factor authentication'

(See "Managing Single Sign-on" in *Administering Oracle Cloud Identity Management* guide)

Sample Support for Upgrades
Currently leveraged by more than 50 customers across EMEA

Before you start – Please Review
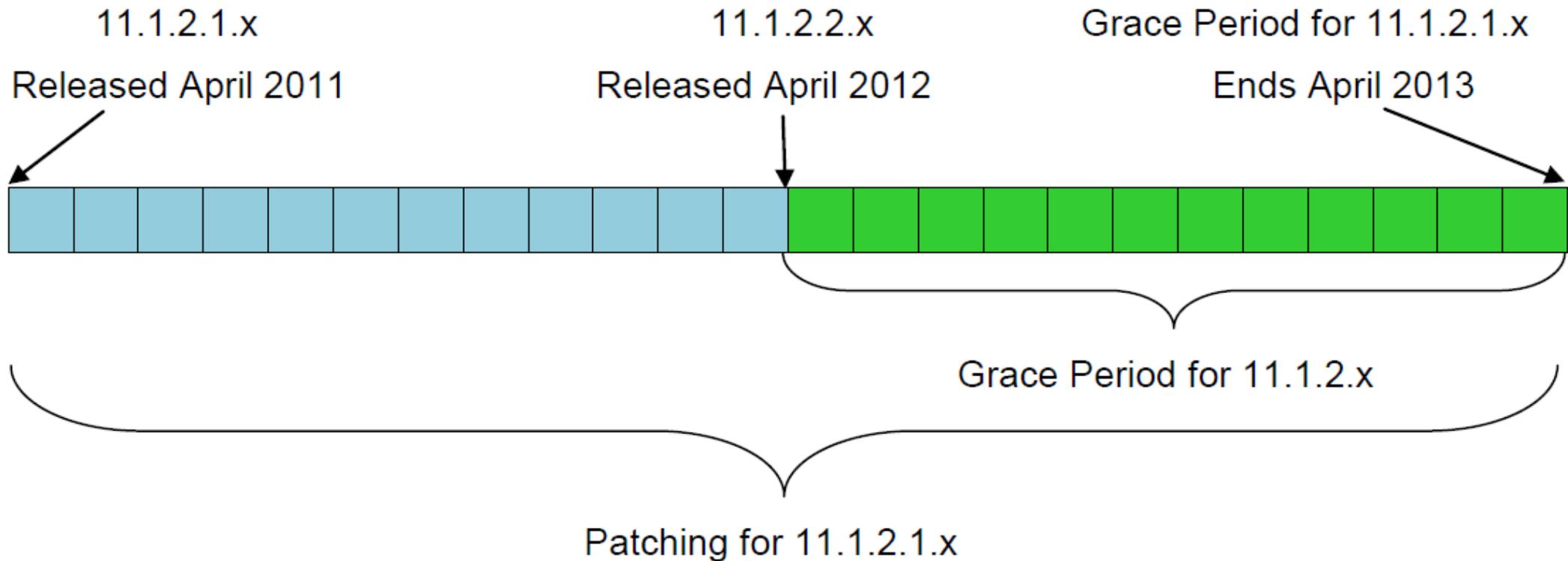
- Lifetime Support Policy

- Certification Matrices: http://bit.ly/1CxHKNY

  - Review certifications for all the products in your portfolio, including SmartView

- Error Correction Policy (KM) and Grace Period End Dates (KM)

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Release Definitions:

— Major release: 11.1.1, 11.1.2,

— Patch Set: 11.1.2.1, 11.1.2.2, 11.1.2.3,

— Patch Set Update: 11.1.2.3.500

— Patch Set Exception: critical fix for a specific customer

— Gr The grace period is intended to provide customers adequate time to plan and execute the installation of a new Patch Set. During this time Oracle will continue to create new fixes for the previous Patch Set for issues with significant customer business and operational impact. The fix must be technically feasible for Oracle to create in a way that will not be likely to cause further bugs.
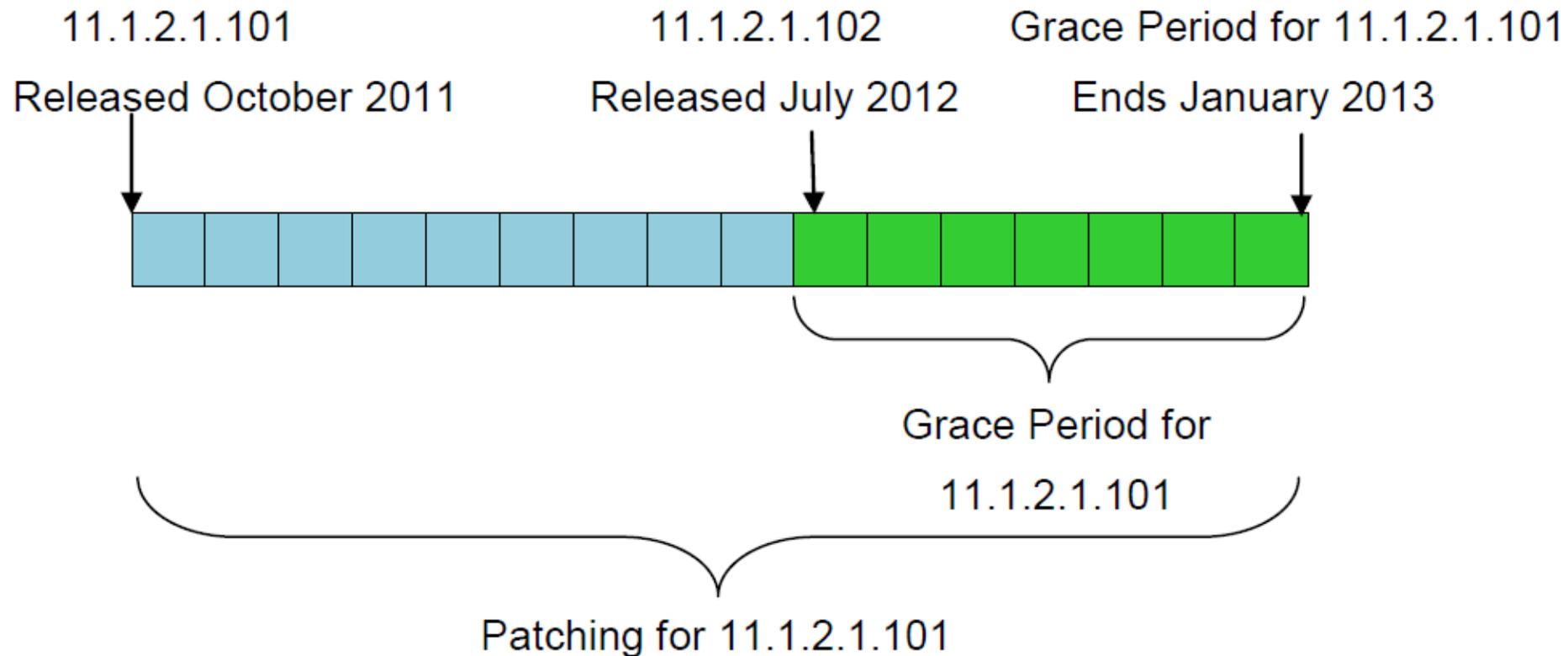
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Grace Period for Patch Sets

- Provide error correction on the current patch set for a period of 12 months after the release of a subsequent patch set

Grace Period for Patch Set Updates

- Provide error correction on the current patch set for a period of 6 months after the release of a subsequent patch set

Support

- For upgrade information the best place to start is the EPM upgrade advisor:
Upgrade Advisor: Enterprise Performance Management (EPM) System Upgrade from 11.1.1.3 to 11.1.2.x (Doc ID 324.1)

- For general EPM support guidance on patching, certification etc they should review:
My Oracle Support Accreditation Series - Business Analytics (Doc ID 1626104.1).

- Our blog provides the latest updates on patches and statement of directions (the blog replaces any newsletters we sent out in the past):
https://blogs.oracle.com/proactivesupportEPM/

We also have a Twitter account which they can follow:
https://twitter.com/Oracle_EPMBI

Also check out the MOSC EPM space to see other customer queries and responses:
https://community.oracle.com/community/support/oracle_hyperion_epm

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Training

- Instructor-led training (OU), Oracle-By-Example, and videos

- Our website is the best place to get all the information that you need for various products. Everything that we create is on the website: http://epmbi-curr.us.oracle.com/development/Scripts/displayProductGroupPage.php?pgID=9

- We also have a YouTube channel where we host all the videos that we create: https://www.youtube.com/user/OracleEpmBiTutorials/featured

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Documentation and more...

- Oracle Help Center (formerly Documentation Library) – a one-stop shop for all product documentation for both Cloud and On Premise products and Services: http://docs.oracle.com/en/

- Documentation Portal – gateway to all things EPM: http://bit.ly/17YLa2C

- Cumulative Feature Overview Tool – customers can create reports of new features between releases: http://bit.ly/18EQKJB

- Defects Fixed Finder Tool – customers can create reports of defects fixed between releases: http://bit.ly/19MaHJU

- Social media sites where we post updates and notifications:

  – Facebook: http://www.facebook.com/pages/Hyperion-EPM-Info/102682103112642

  – Google+: https://plus.google.com/106915048672979407731/#106915048672979407731/posts

  – LinkedIn Group: http://www.linkedin.com/groups?gid=3127051&goback=.gmp_3127051

  – Twitter: https://twitter.com/HyperionEPMInfo

Other important HFM & SV 11.1.2.4 considerations

- Standard Upgrade process
  - 11.1.2.1
  - 11.1.2.2
  - 11.1.2.3
- Exalytics is a migration from Windows 11.1.2.4
- Performance Tuning published as a chapter in the Admin Guide
- Java Doc published for API's
- Admin Guide includes all valid VB Script functions supported
- SV functions now use alias name for custom dimensions