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Migrating and Managing Customizations

Oracle E-Business Suite R12.2

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Program Agenda

- 1 Customizations in EBS 12.1 vs 12.2
- 2 Preparing Customizations for the EBS 12.2 Upgrade
- 3 12.2 Upgrade impact to Customizations
- 4 Managing Customizations in 12.2
- 5 Key Takeaways

Program Agenda

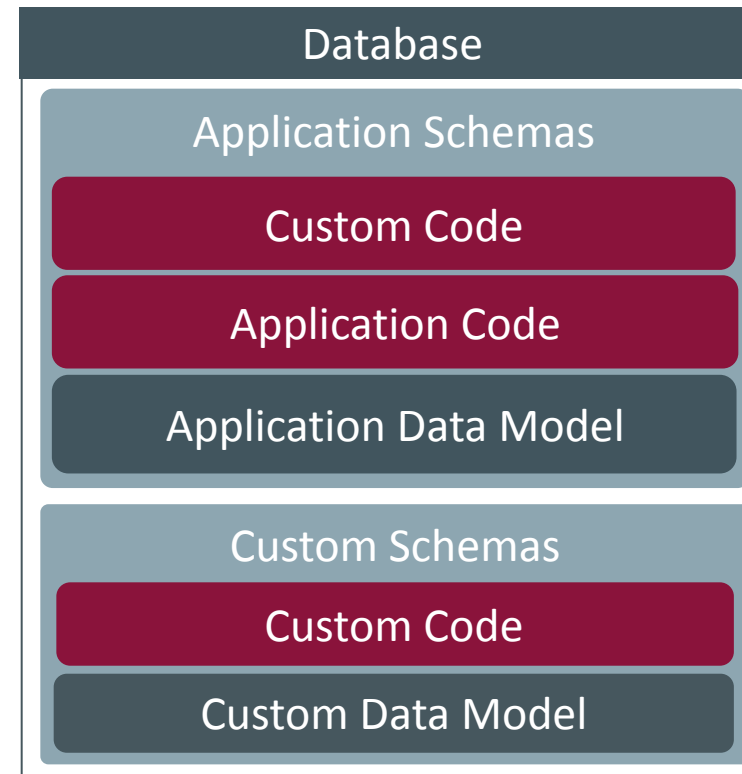
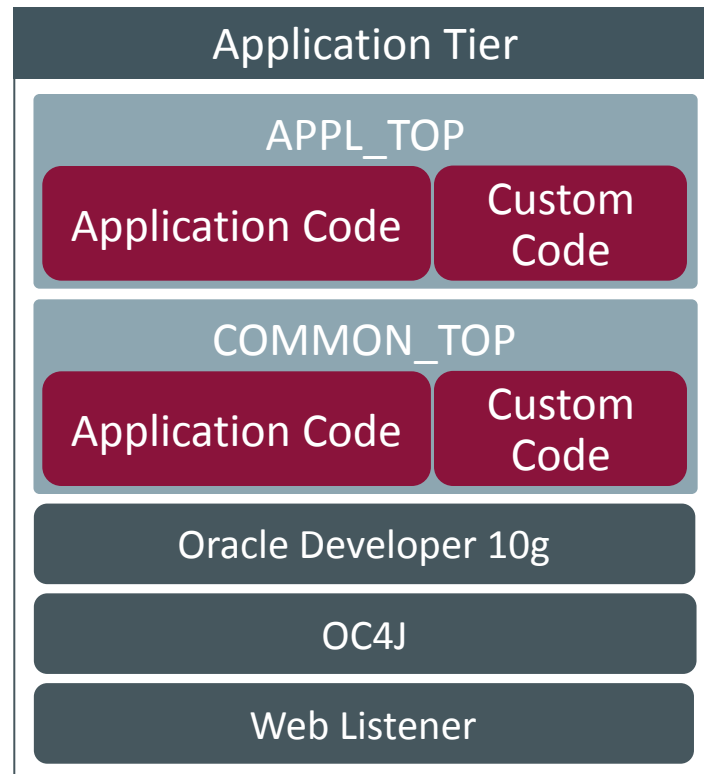
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Customizations in E-Business Suite

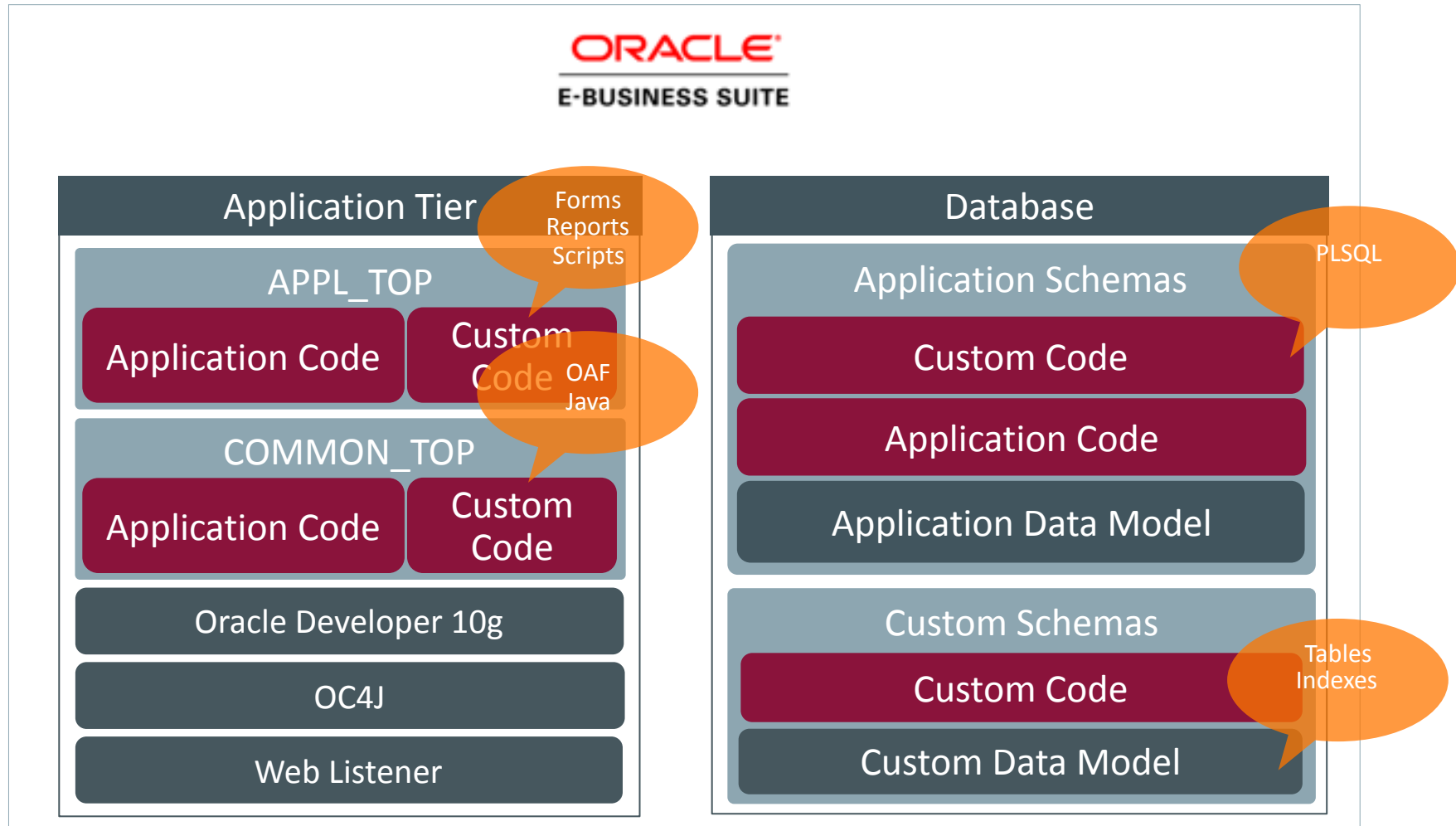
- Implemented in several technologies
- Installed in the middle tier and in the database
- Database customizations
 - Deployed in custom schemas and EBS schemas
 - Could have dependencies on EBS code

Customizations Releases 12.1

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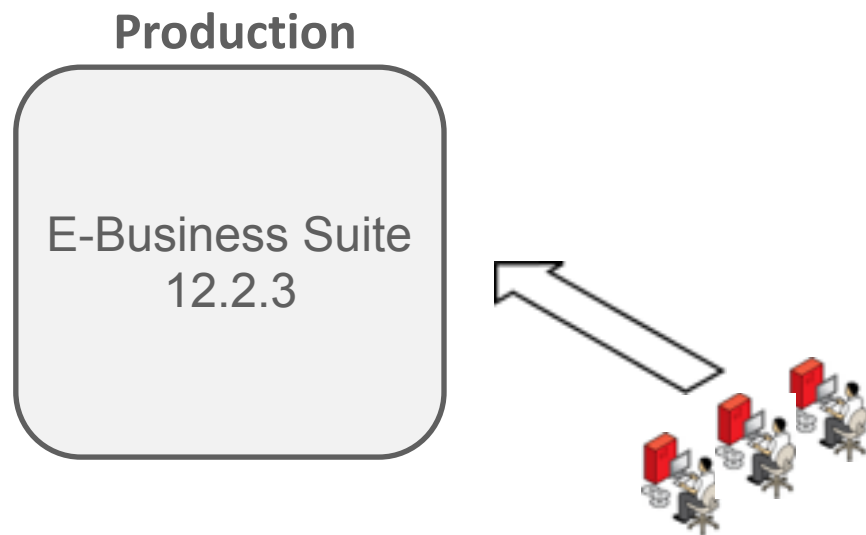


Customizations Releases 12.1



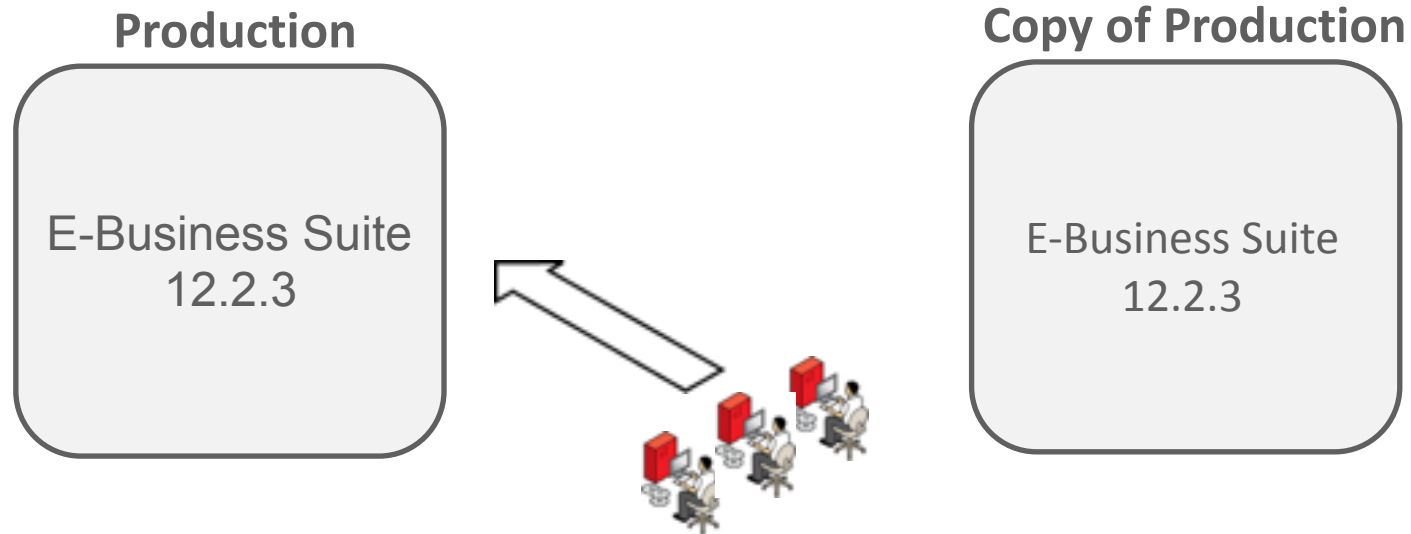
Oracle E-Business Suite 12.2 and Online Patching

Quick High-level Recap



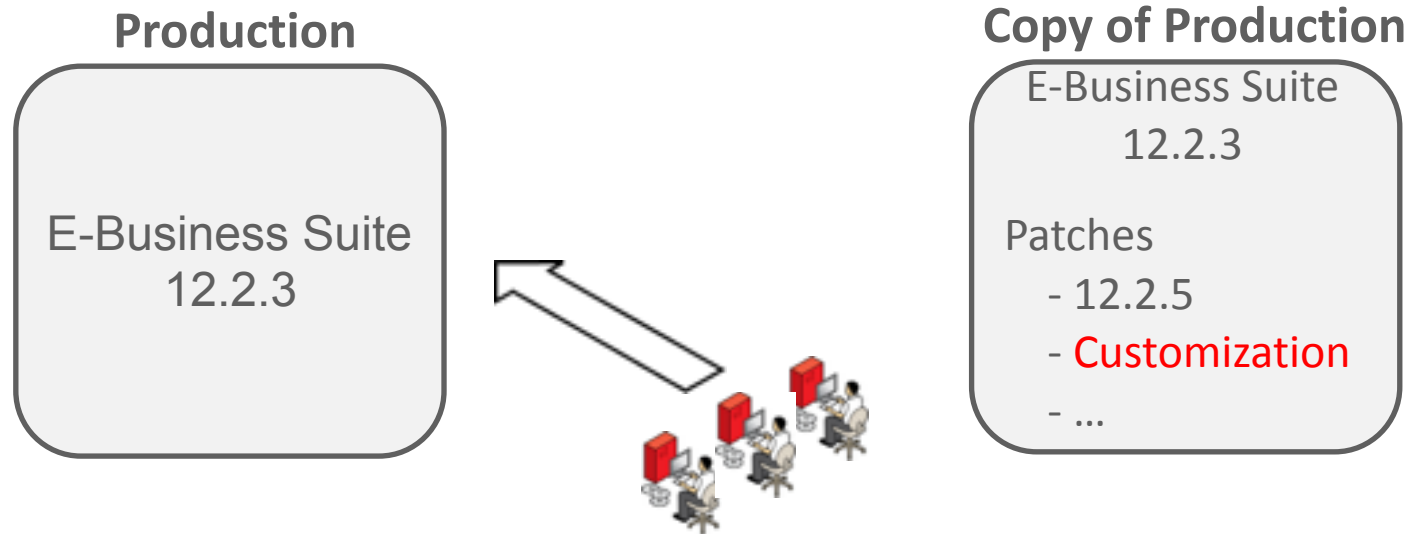
Oracle E-Business Suite 12.2 and Online Patching

Quick High-level Recap



Oracle E-Business Suite 12.2 and Online Patching

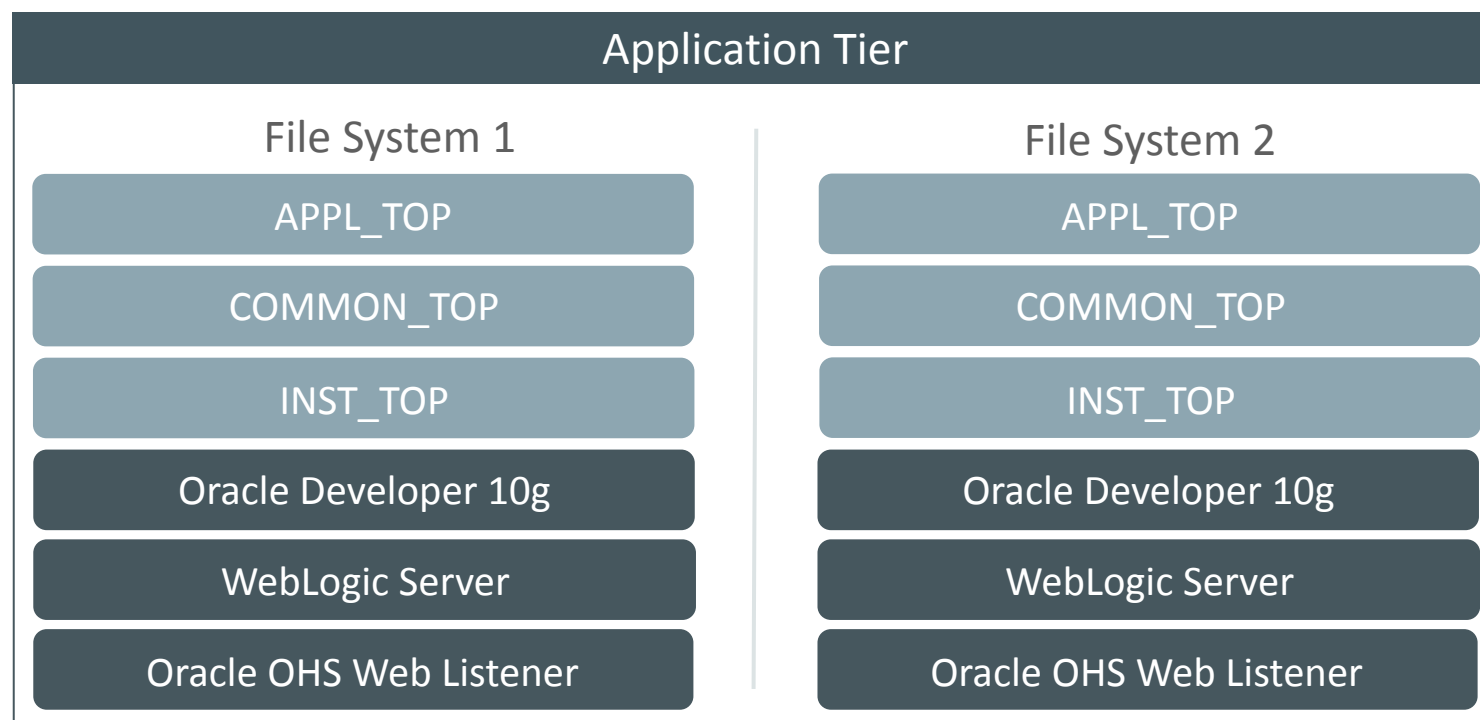
Quick High-level Recap



- Copy the production code, including **customizations**
- Apply patches to the copy

Oracle E-Business Suite 12.2 and Online Patching

Dual File System



Two Complete Copies of the File System

Oracle E-Business Suite 12.2 and Online Patching

Edition-Based Redefinition

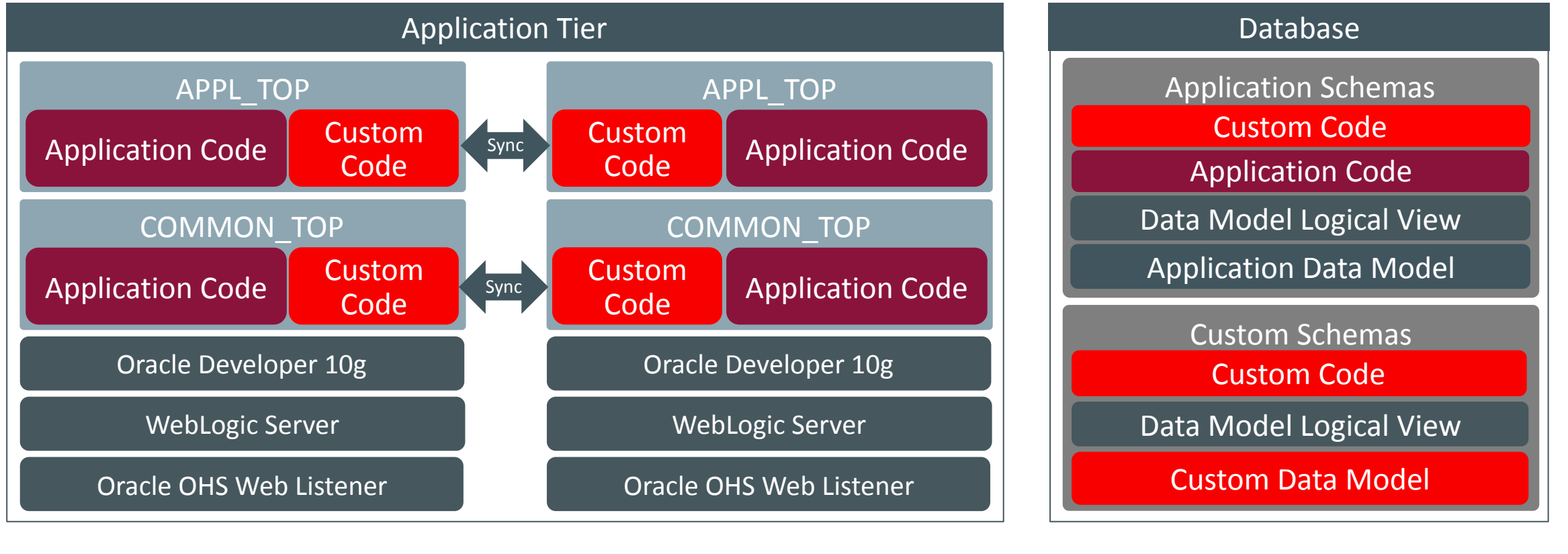
- Efficiently stores multiple copies of Application definitions in the same database
- Provides an isolation mechanism (“Edition”) that allows pre-upgrade and post-upgrade schemas to co-exist
- Client code chooses the particular “Edition” that it wants to connect to



Customizations in Oracle E-Business Suite R12.2

- To be patched Online they have to comply with Online Patching:
 - Development Standards
 - Patching Procedures
- Exist in both file systems (dual file systems)
- Custom Schemas with dependencies on EBS objects must be editions-enabled

Customizations in Oracle E-Business Suite R12.2



Dual File System

Editioned DB Schemas

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12.2 Development Standards for Custom Code

Decide Which Standards Compliance Level to Target

Minimal

- Required, minimal set of standards must be met for custom code to operate correctly on 12.2

Full

- Optional, additional standards must be met for custom code to be Online Patchable

- Decision is based on importance of minimizing downtime
- In either case, EBS Patches are always applied online

Preparing Customizations for the 12.2 Upgrade

Customizations Upgrade Project

- Create a customizations catalog
- Analyze and Implement code remediation
- Deploy revised customizations



Customizations Catalog

Customizations Upgrade Project

Make sure the catalog identifies all the artifacts

- Database
- Middle Tier
- Technologies Used
 - OAF, Forms, Reports, Java, PLSQL, etc

Application Management Suite - Customization Management

Customizations Catalog



- **Discovery & reporting of EBS customizations**
- Ability to validate, package and deploy customizations across EBS instances
- Over 200 customization file types supported
- Interface with external Source Code Version Control systems
- Validation of the custom objects using:
 - Oracle Defined Standards
 - Optionally, User Defined Standards
- Validates and reports readiness of customizations for Online Patching

Utilities available for the Analysis

- Online Patching Readiness Reports
 - All sections on this report refer to **Minimal compliance**
- Online Patching Standards Compliance Report
 - Section headers indicate the type of compliance: **Minimal or Full**

Reports are available as **standalone patches** for 11i, 12.0, 12.1 and 12.2

– Note:[1531121.1](#) Using the Online Patching Readiness Reports in Oracle E-Business Suite Release 12.2

Online Patching Readiness Reports

- Validate Edition Based Redefinition compliance
- All Sections in the report refer to **Minimal** compliance
- 12.2 Upgrade will **automatically** address most custom code standards violations contained in schemas **registered** with the application
- Failure to address standards violations will result in **Invalid Custom Code** after the R12.2 Upgrade

Online Patching Readiness Reports

Reports

ADZDPSUM.sql

- Identifies Custom Schemas with objects that have dependencies on EBS Code
- Generates statements to **register** identified schemas with the application

ADZDPMAN.sql

- Identifies Objects that violate the Minimal Compliance standards which require **manual** intervention
- Each section header provides a description of standards violation and how to fix them

ADZDPAUT.sql

- Identifies Objects that violate the Minimal Compliance standards and are **automatically** fixed by the Online Patching Enablement process. There is no action required on the output of this report

Online Patching Readiness Report

Section Headers indicate how to fix the standards violations
Sample Report: ADZDPMAN.sql

```
DOC> ****
DOC> SECTION-1
DOC> ****
DOC>
DOC> MANUAL FIX: Objects in Non-EBS schemas that depend on Edited
DOC> Objects of EBS.
DOC>
DOC> To fix these violations, do one of the following:
DOC> - Register object schema (owner) as a Custom EBS Schema, please refer to
DOC> report ADZDPSUM.sql
DOC> - Drop object, if not required
DOC> - Redefine object to remove dependency
DOC> - Move the object to a registered Custom EBS Schema
```


Online Patching Readiness Reports

Summary

- Very few violations require manual intervention if the schema is registered with the application, e.g.
 - Materialized View with a dependency on a PLSQL package or function
 - Use of LONG and LONG RAW columns
- Report output will direct you on how to address these violations
- Reports applicable during the preparation to the 12.2 upgrade

Online Patching Standards Compliance Report

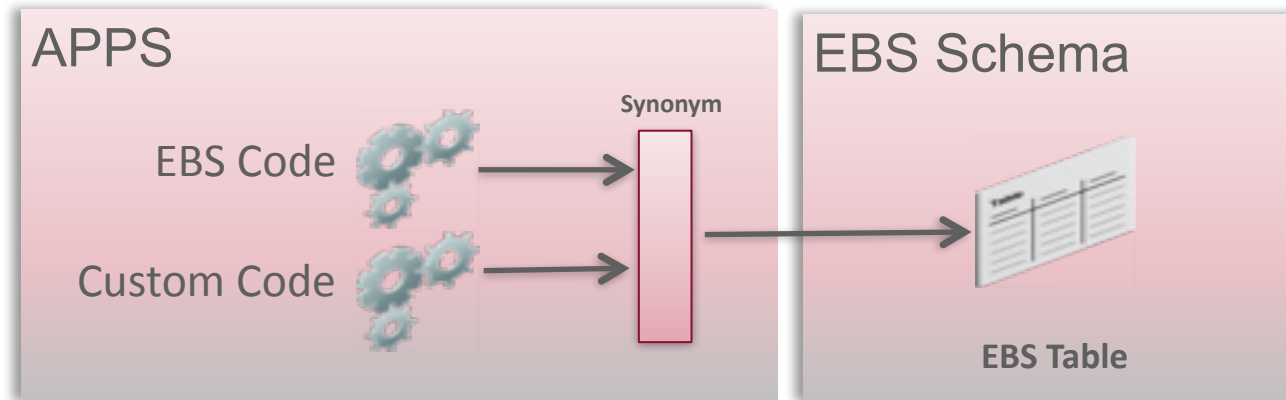
Overview

- Validates standards applicable to Minimal and Full Compliance
- Section headers indicate the type of compliance: **Minimal or Full**
- Standards include
 - Data Model Access Pattern
 - Code naming standards
 - Special Object definition requirements (VPDs, MVs)
- Failure to address these standards violations could result in
 - Future Code invalidation
 - Inability to patch Custom Code online (Downtime required to maintain Custom Code, Full Compliance)

Online Patching Standards Compliance Report

Data Model Access Pattern

Pre-12.2 Database

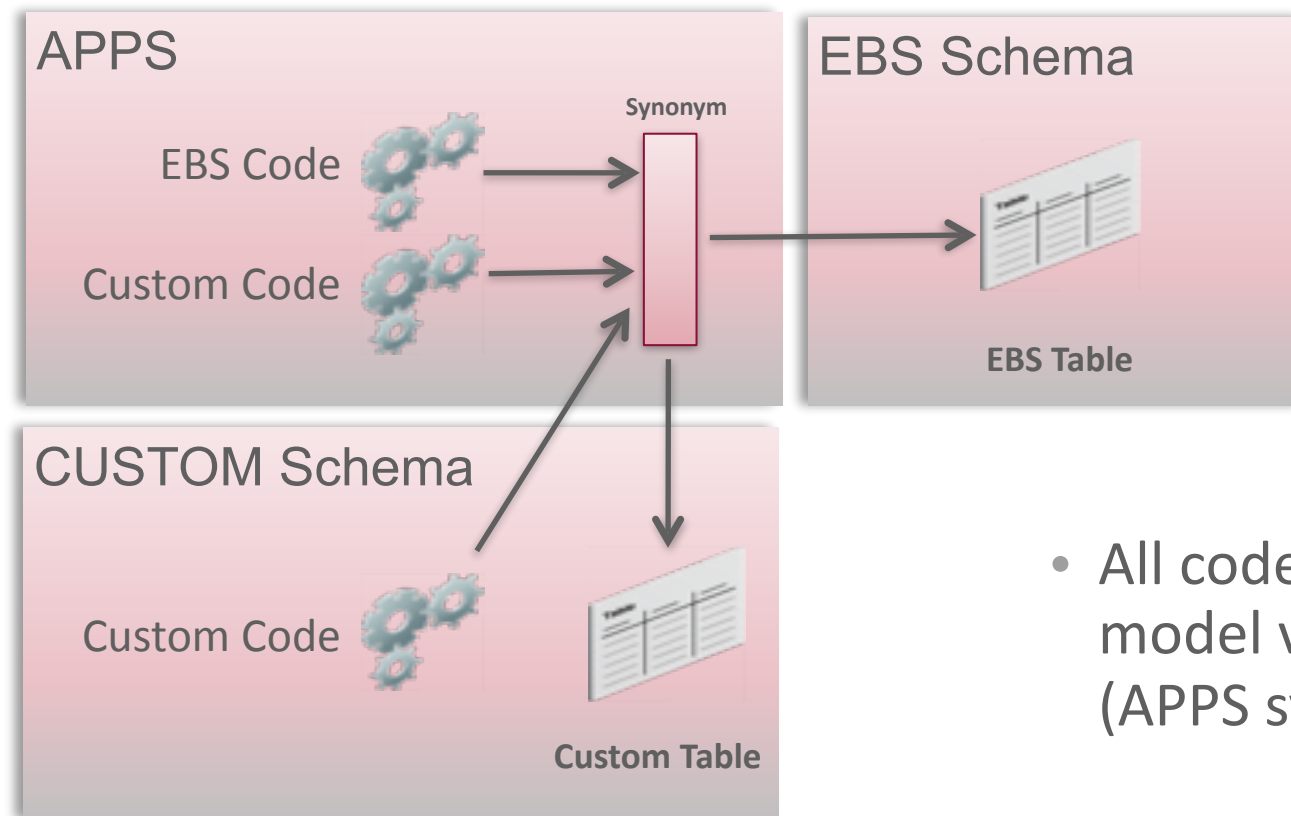


- All code must access the data model via the Logical View (APPS synonyms)

Online Patching Standards Compliance Report

Data Model Access Pattern

Pre-12.2 Database



- All code must access the data model via the Logical View (APPS synonyms)

Online Patching Standards Compliance Report

Code Naming Standards

These standards allow Online Patching to automatically manage derived objects

- Table Names must be unique within the first 29 characters
- Column Names must be unique within the first 28 characters
- Table Names cannot end with the “#” character
- Object Names must end in alphanumeric character
- Index names must contain at least one “_” character
- Constraint Names must contain at least one “_” character
- Materialized Views Name cannot exceed 29 characters

Online Patching Standards Compliance Report

Code Naming Standards

- Table name cannot end with a “#” character
 - Reason: Editioning View name matches the name of the table + “#”

Editioning View

FND_CONCURRENT_REQUESTS#		
ID	FILED_BY	STATUS

- Column name may only use “#” as last character
 - Reason: “#” character reserved for identifying patched columns

Table

FND_CONCURRENT_REQUESTS			
ID	FILED_BY	STATUS	STATUS#1

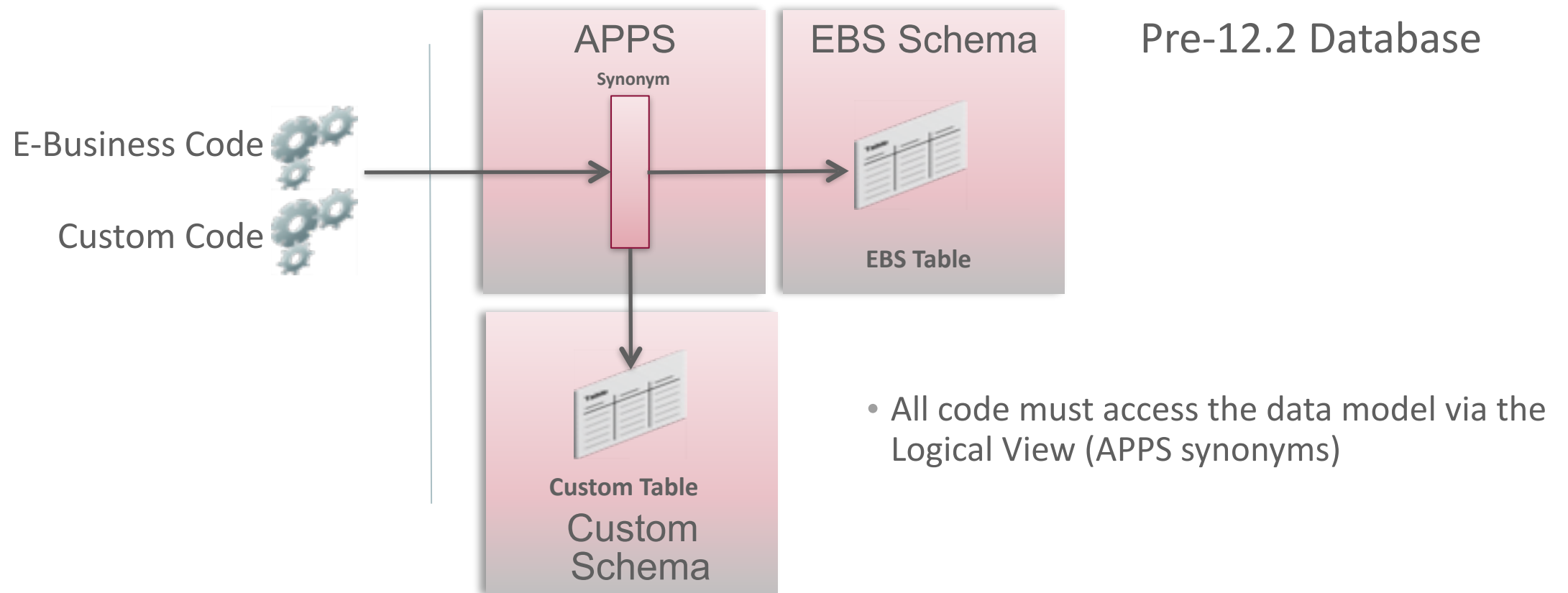
Online Patching Standards Compliance Report

Application Tier Data Model Access Pattern

- Included as part of the Readiness Reports (**gsccl.pl**)
- Validates Data Model Access Pattern in middle tier source code
 - Java
 - XML
 - SQL
 - PLSQL
- Currently working on enhancement to support
 - Oracle Forms
 - Oracle Reports

Online Patching Standards Compliance Report

Application Tier Data Model Access Pattern



Online Patching Standards Compliance Report

- Section headers indicate the type of compliance: Minimal or Full
- Report: ADZDDBCC.sql

```
DOC> *****
DOC> SECTION-10 [full]
DOC> *****
DOC> "APPS object names must end with alphanumeric character."
DOC>
DOC> - P2: May cause object name conflicts during online patching.
DOC>   Use of special characters as the last character of an
DOC>   object name is reserved for the Online Patching tool.
DOC> - Fix: Change the object name to use an ordinary identifier character
DOC>   as the last character: A-Z a-z 0-9 _ # $
DOC> - Unused objects can be ignored or dropped.
DOC>#
```

Online Patching Standards Compliance Report

Summary

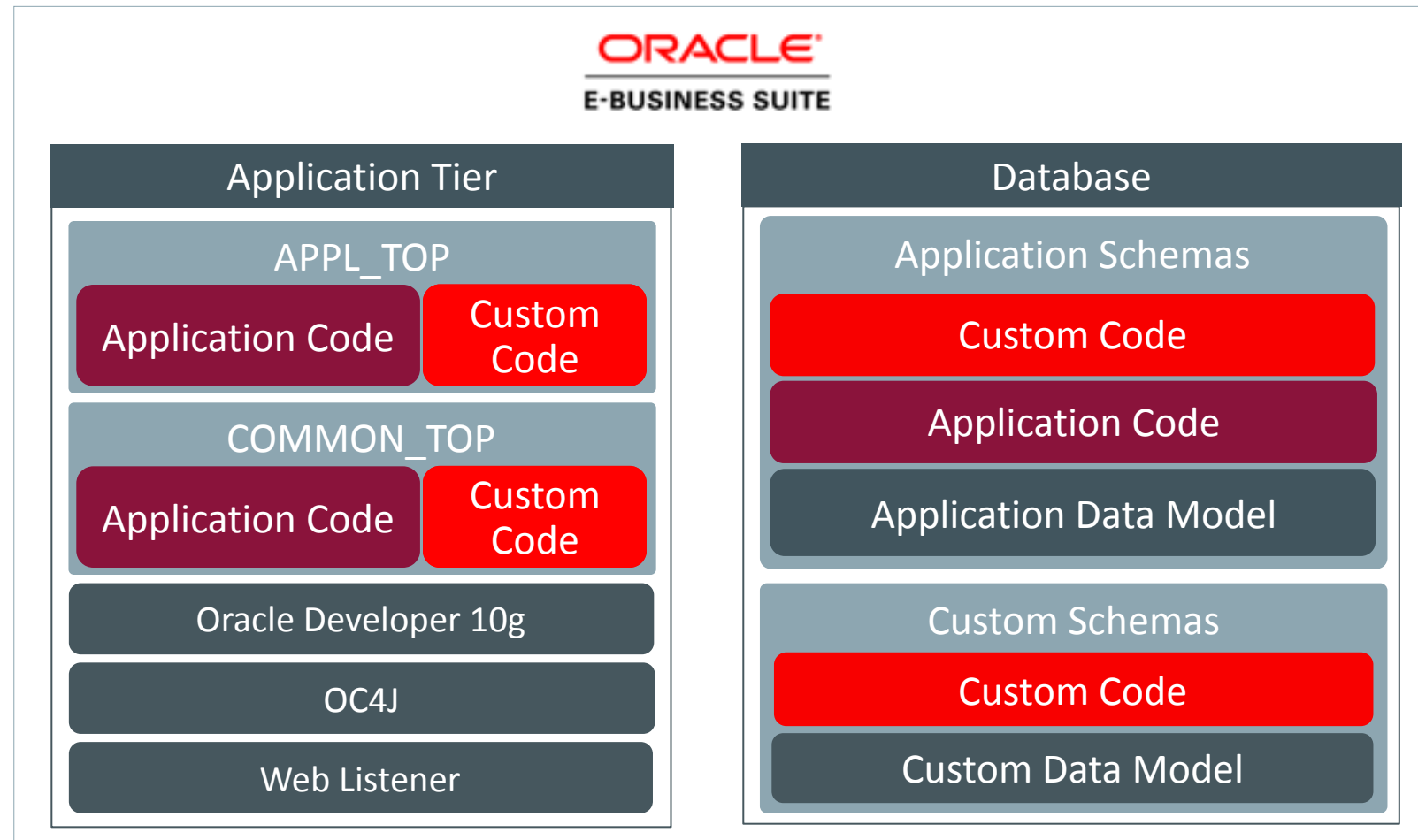
- Violations to the standards can be very easily fixed, do not require advanced development skills
- Reports applicable during the preparation to the 12.2 Upgrade and to validate future customization development

Deploy Revised Customizations

Customizations Upgrade Project

- Compatible with any pre-12.2 releases
- Remediated Code could be
 - Deployed to the current production environment (Preferred)
 - Deployment can be deferred to the upgrade downtime

E-Business Suite 12.1 Instance **Ready** for 12.2 Upgrade

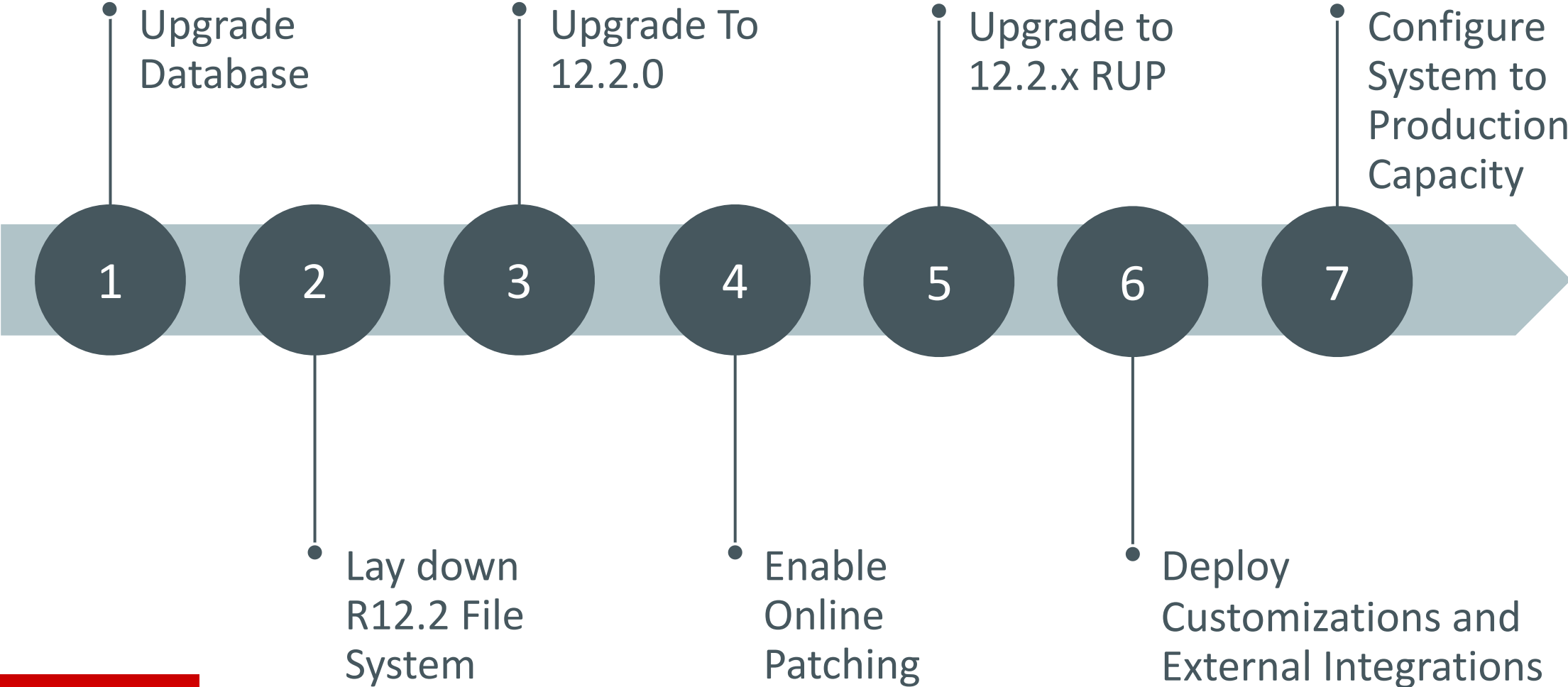


Minimal/Full Online Patching Compliant ■

Program Agenda

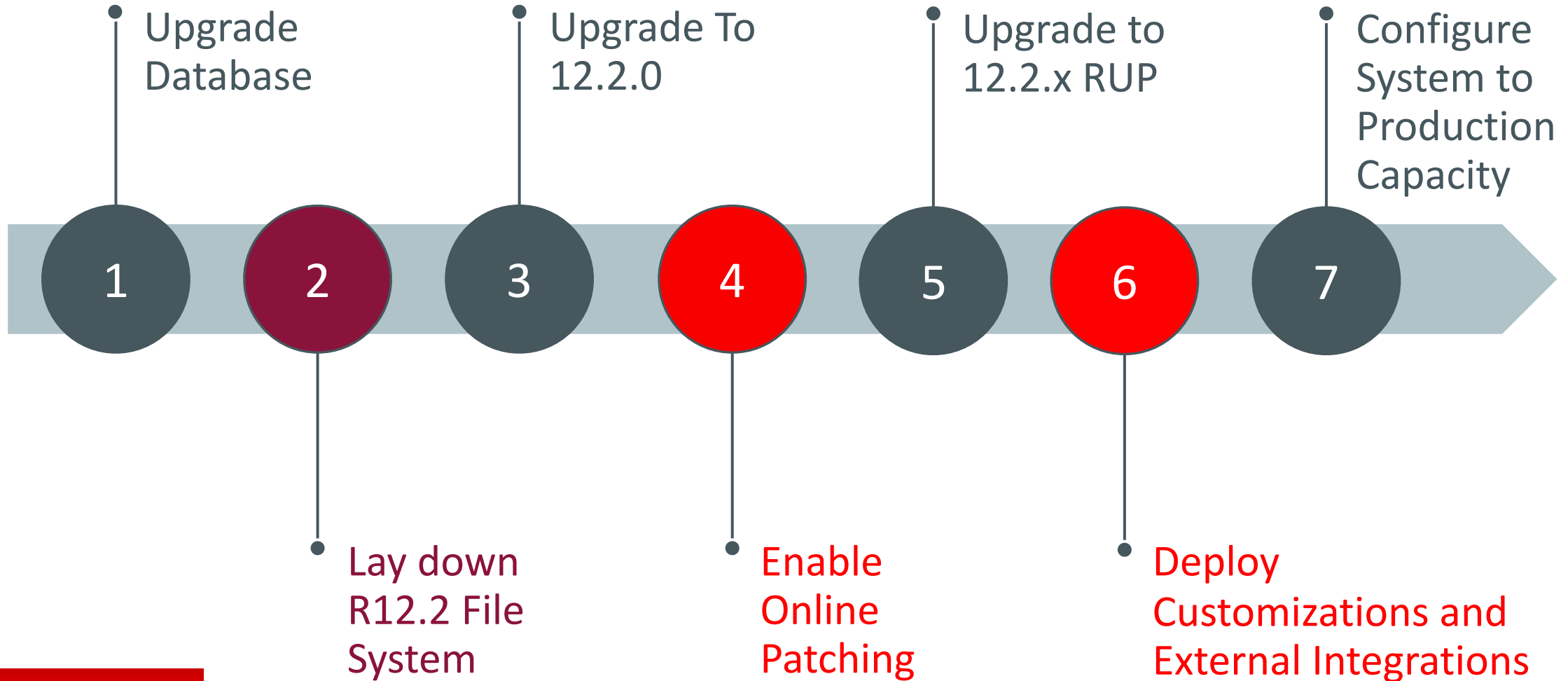
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R12.2 Technical Upgrade Process

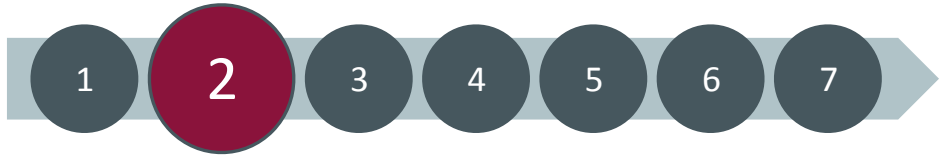


R12.2 Technical Upgrade Process

Key Stages for Customization Migration

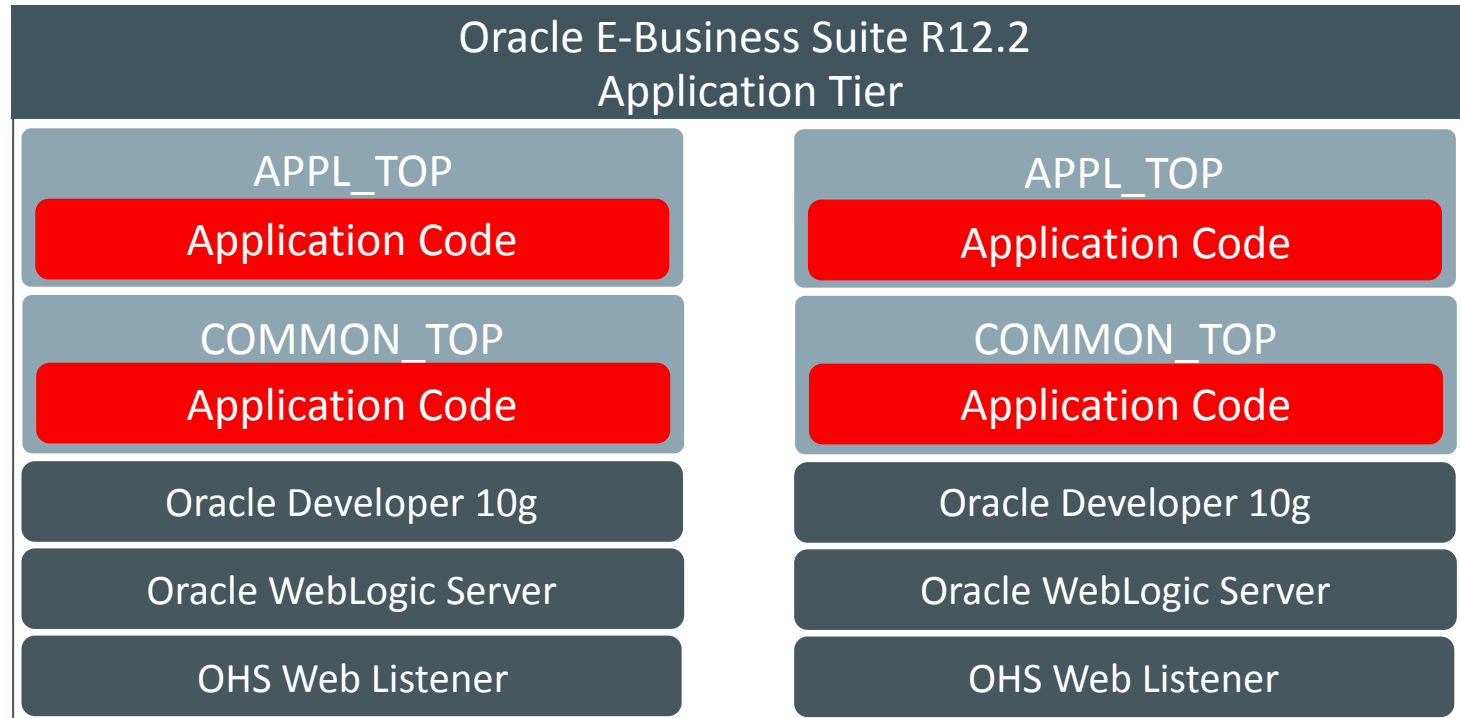


R12.2 Technical Upgrade Process



Lay Down R12.2 File System

- Completely New Dual File System
- Does not carry over any code from pre-12.2 file system



R12.2 Technical Upgrade Process



Enable Online Patching

This process is **Database** centric

Before running this process:

- Deploy any remediated database code **not deployed** in the preparation project
- **Register** any custom schemas identified by the preparation project
- **Re-run Readiness and Database Compliance Reports** to verify customization compliance prior to Enablement

R12.2 Technical Upgrade Process



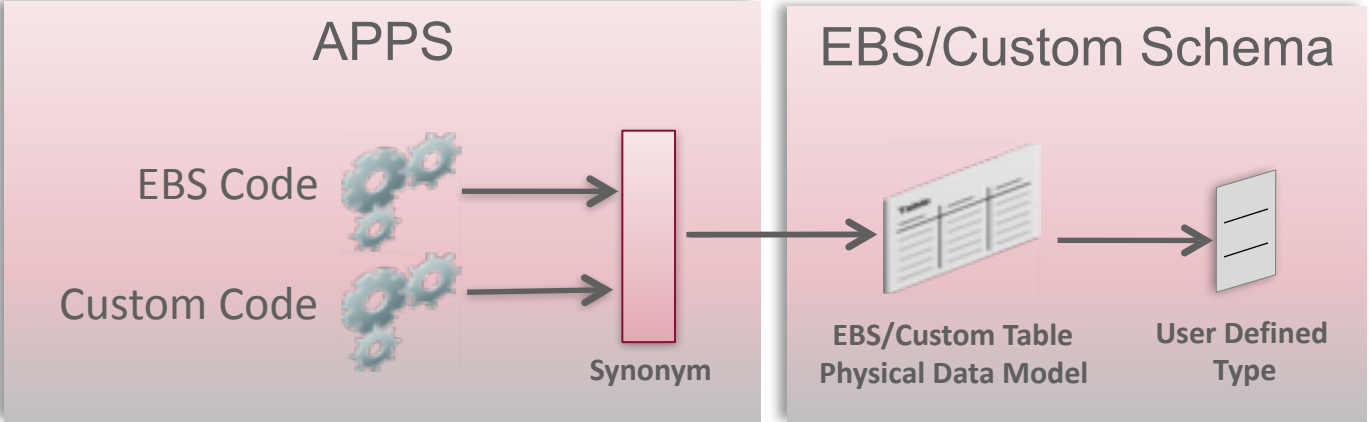
Enable Online Patching

- High level steps in the process
 - Prepares all the database code for editioning, E-Business Suite code + **Customizations**
 - Enables Editioning on E-Business Suite schemas + **Previously Registered** Custom schemas
 - Creates the Logical View of the Oracle E-Business Suite and Custom Data Models.
- **adop** replaces adpatch as the official E-Business Suite patching tool from this point forward

R12.2 Technical Upgrade Process

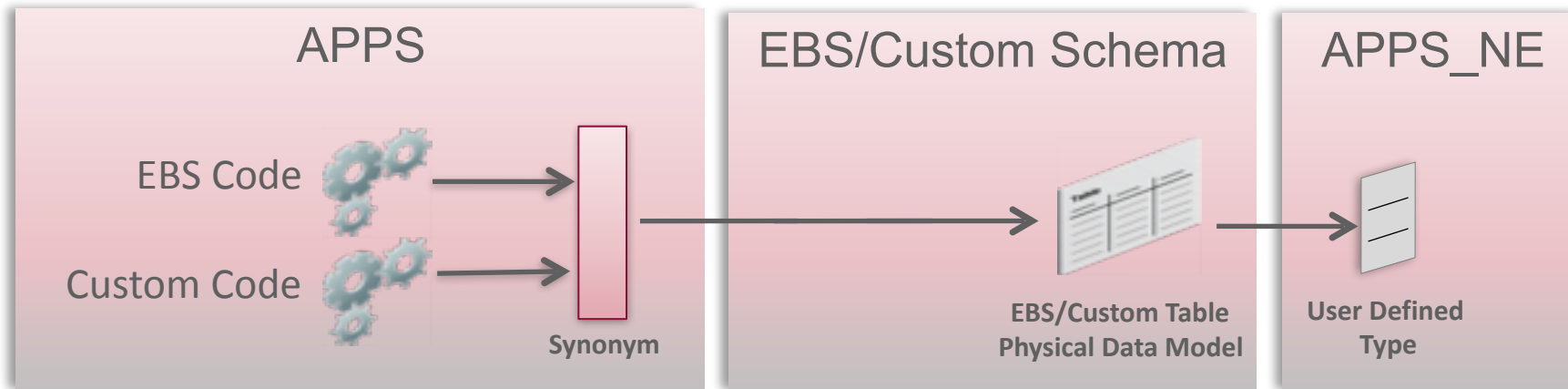
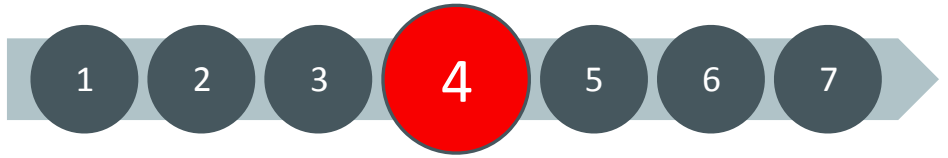


Enable Online Patching



R12.2 Technical Upgrade Process

Enable Online Patching

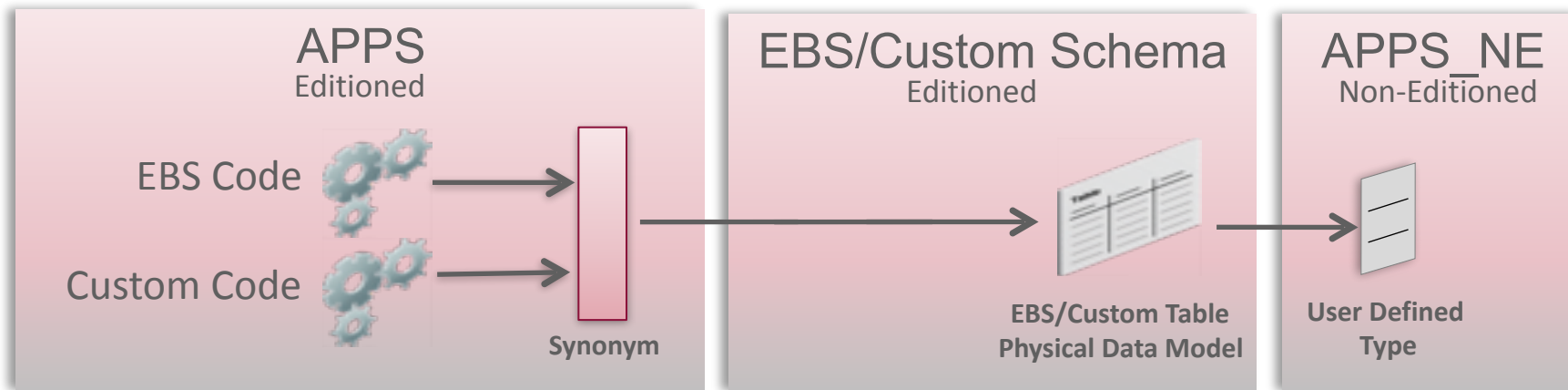


1. Prepares Code for Editioning

R12.2 Technical Upgrade Process



Enable Online Patching

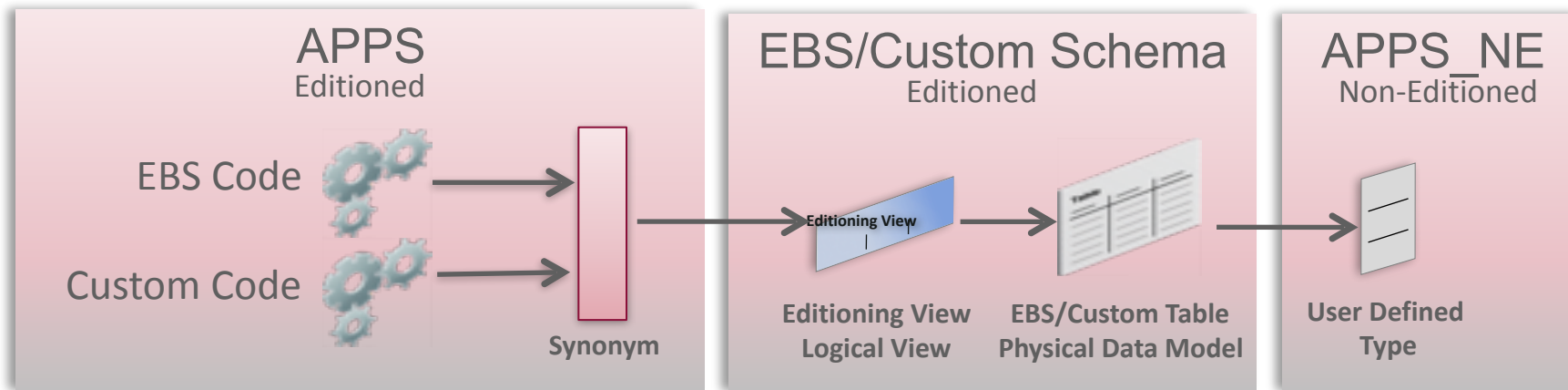


1. Prepares Code for Editioning
2. Enables Editioning on Schemas registered with EBS

R12.2 Technical Upgrade Process



Enable Online Patching



1. Prepares Code for Editioning
2. Enables Editioning on Schemas registered with EBS
3. Creates Logical View

R12.2 Technical Upgrade Process



Deploy Customizations and External Integrations

- Deploy customizations as per new guidelines

Note: [1577661.1](#) Developing and Deploying Customizations in Oracle E-Business Suite Release 12.2

- Key differences compared to prior releases:

- Register custom tops with **adsplice**
- Custom code must be registered with Custom Synchronization Driver (adop_sync.drv) to keep custom code in sync between file systems
- CUSTOM_TOP must reside within the APPL_TOP
- **New in AD&TXK Delta.8:**
 - File system delta synchronization available
 - 16 character application short names adsplice support

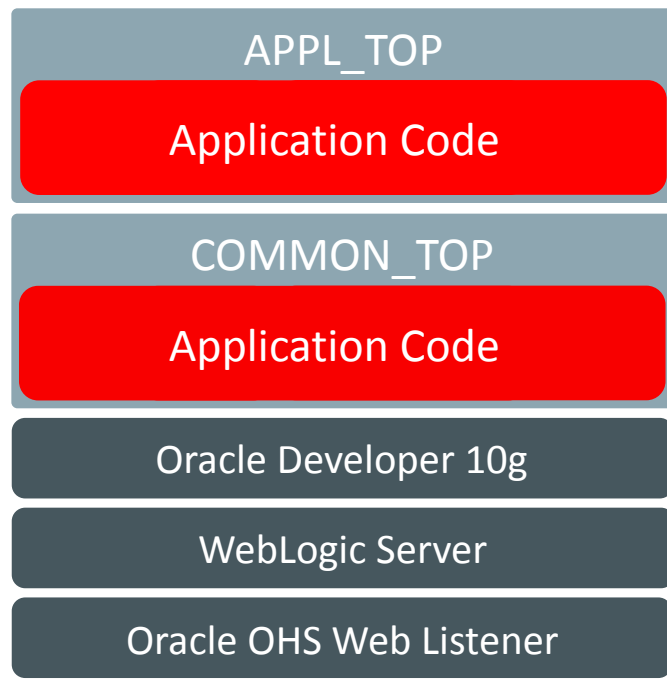
Deploy Customizations

Only Applicable during 12.2 Upgrade



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Application Tier



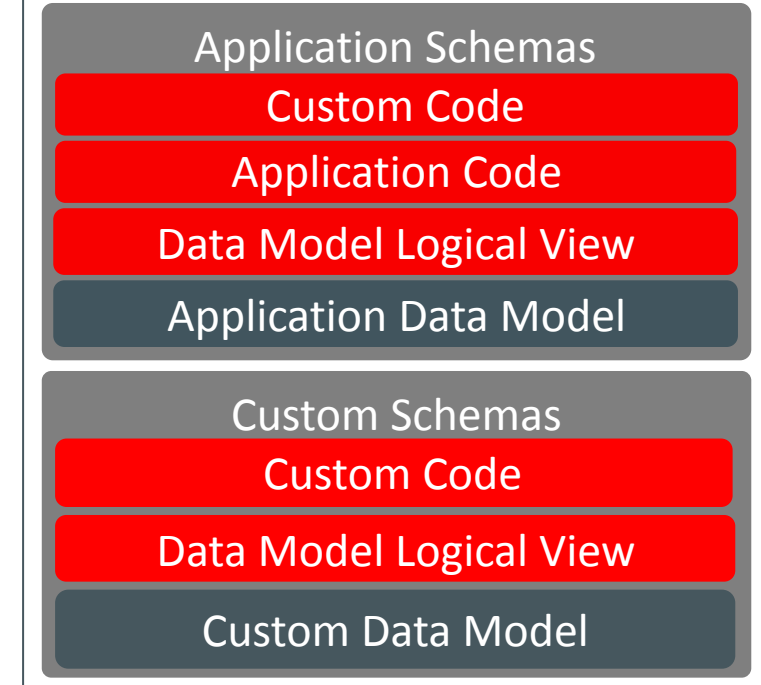
Run



Patch

Dual File Systems

Database

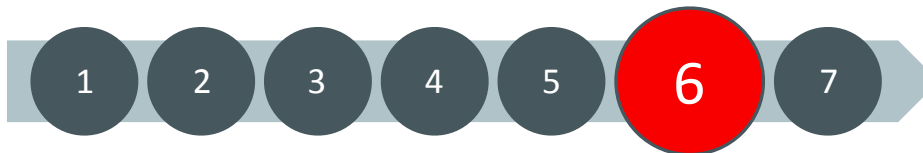


Run

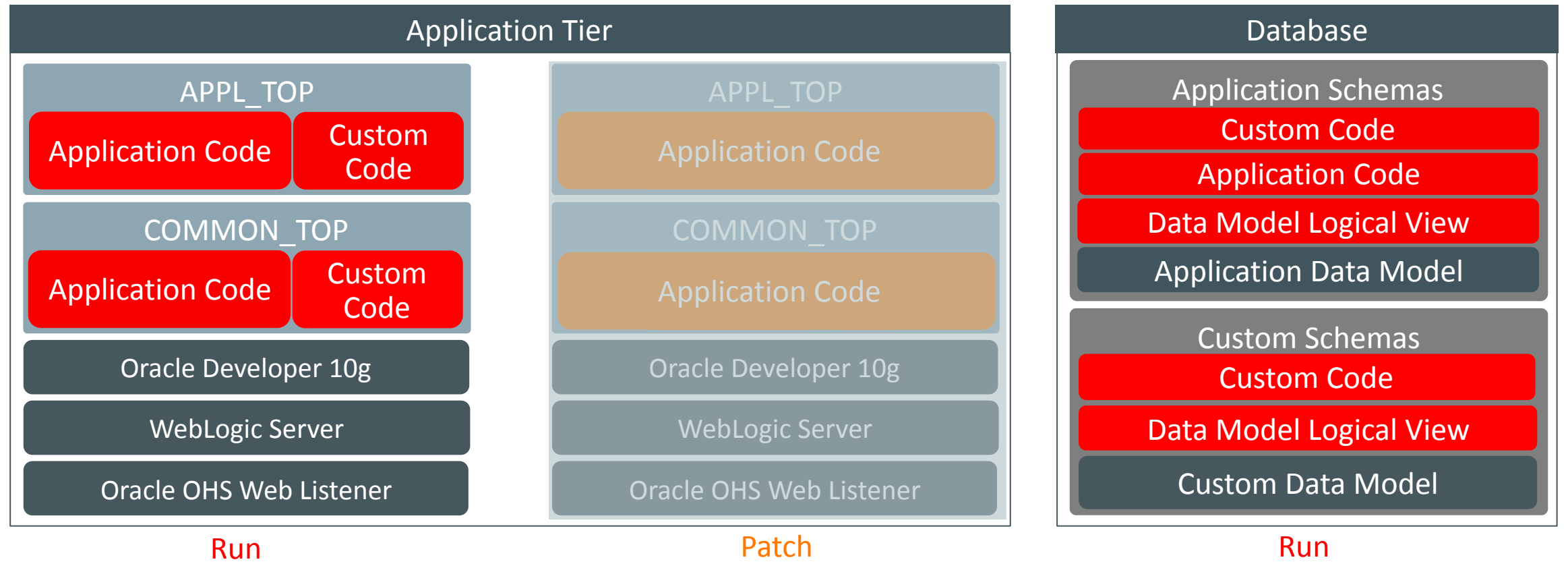
Edition Enabled Schemas

Deploy Customizations

Only Applicable during 12.2 Upgrade



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Run

Patch

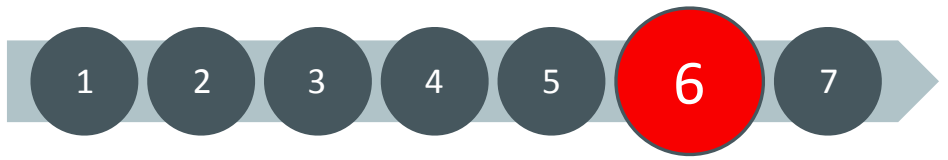
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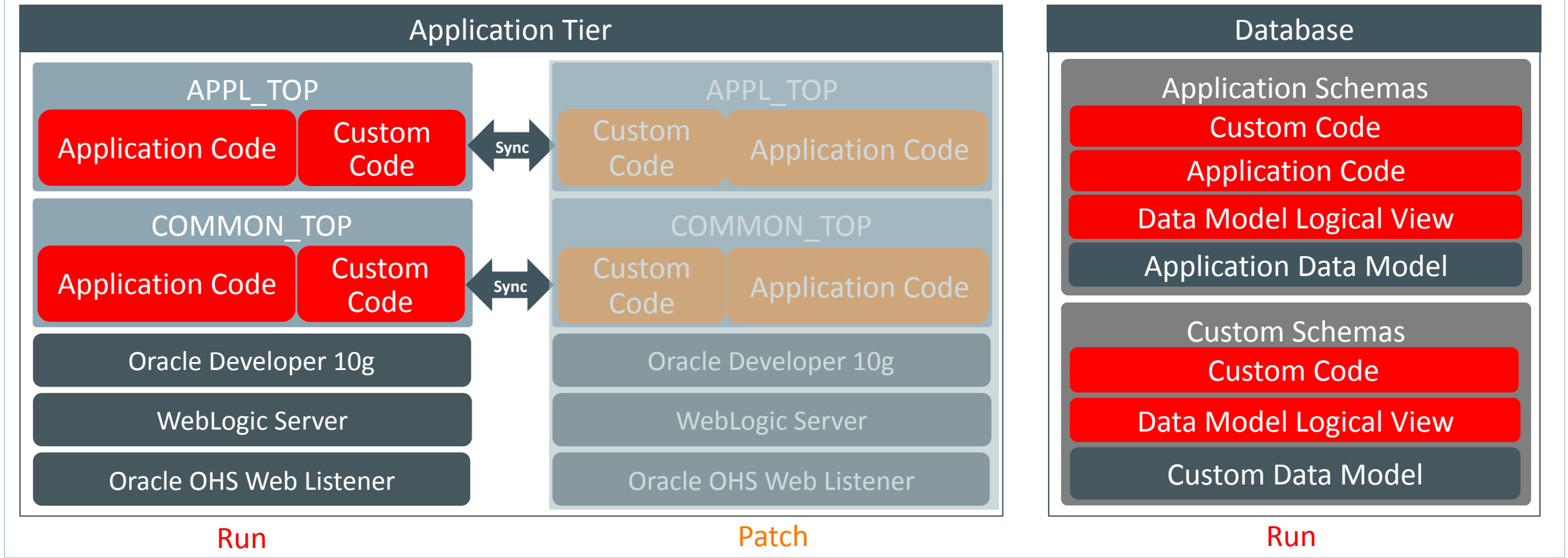
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Dual File Systems

Edition Enabled Schemas

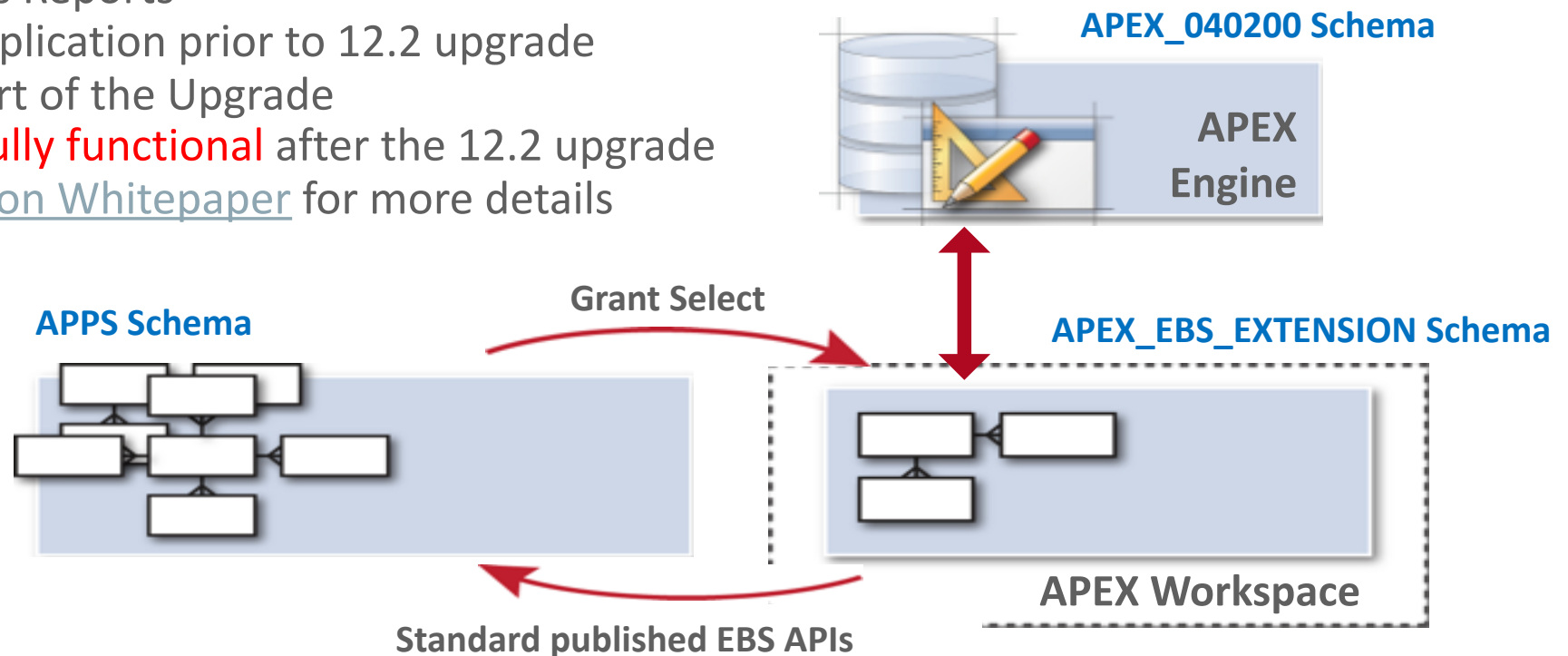


Validating Customization after 12.2 Upgrade

Example: Custom APEX Application Upgrade

Custom APEX Application interacting with E-Business Suite 12.1 via public APIs

- APEX_EBS_EXTENSION Schema
 - Identified by Readiness Reports
 - Registered with the application prior to 12.2 upgrade
 - Editions Enabled as part of the Upgrade
- Custom APEX Workspace **fully functional** after the 12.2 upgrade
- Review the [APEX certification Whitepaper](#) for more details



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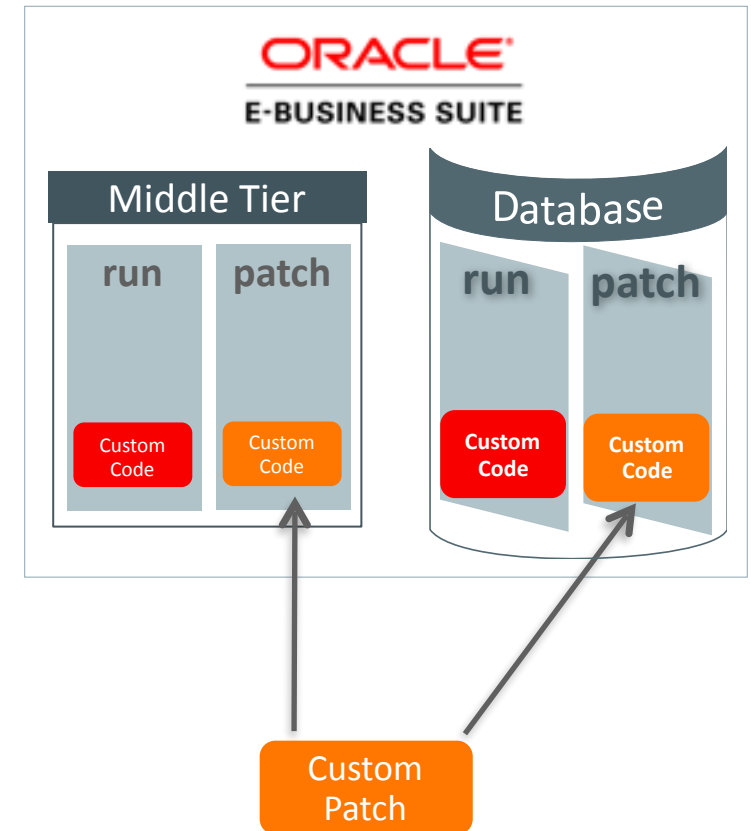
Managing Customizations in R12.2

- Maintain customizations with Online Patching, Full Compliance
- New R12.2 Development and Deployment Process
- New R12.2 Development Standards
- Tools to help manage customizations

Maintain Customizations with Online Patching in R12.2

Full Compliance

- Customizations are deployed during the **Apply** phase
- Deployment instructions available in Note:[1577661.1](https://support.oracle.com/knowledge/Oracle+Applications/1577661.1)



Maintain Customizations with Online Patching in R12.2

Full Compliance

Online Patching Cycle

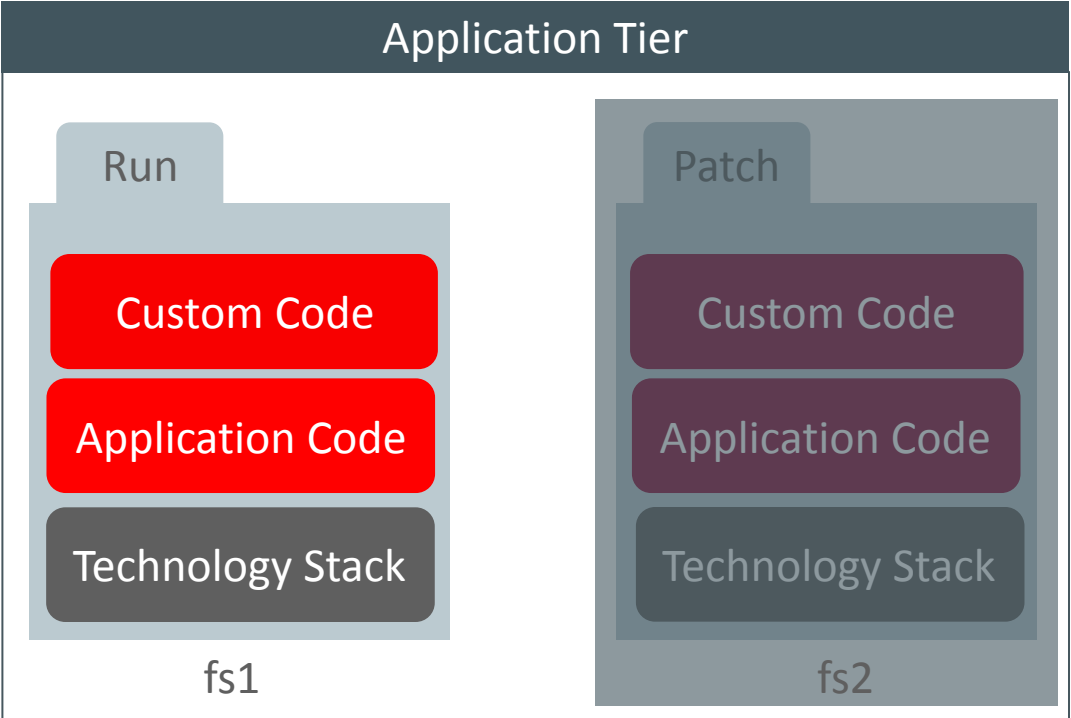
Prepare

Apply

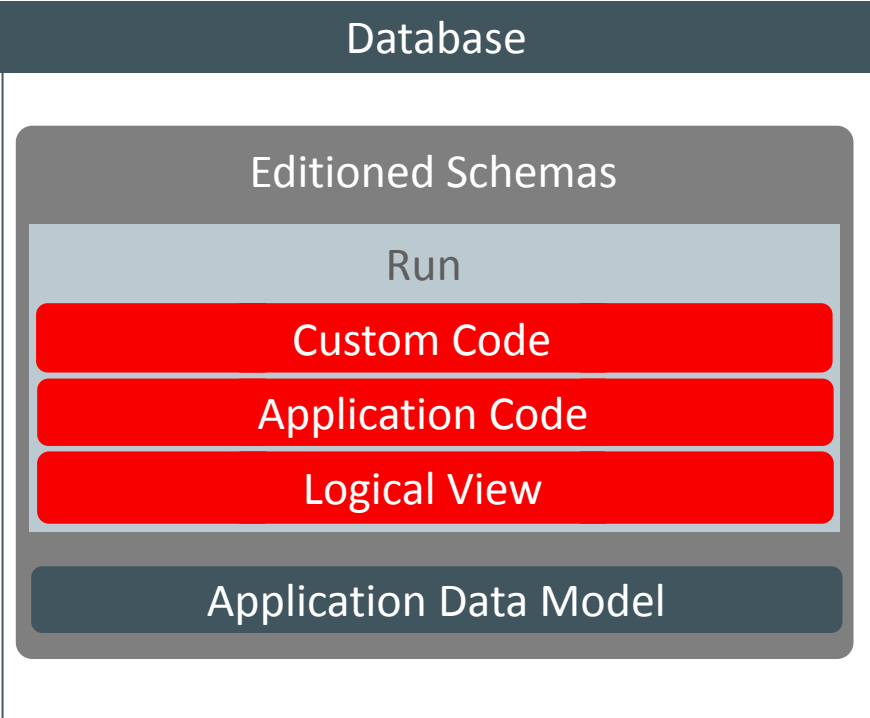
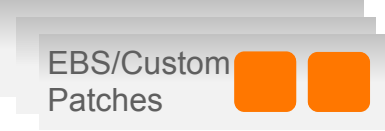
Finalize

Cutover

Cleanup



Dual File Systems



Schemas Editions Enabled



Maintain Customizations with Online Patching in R12.2

Full Compliance

Online Patching Cycle

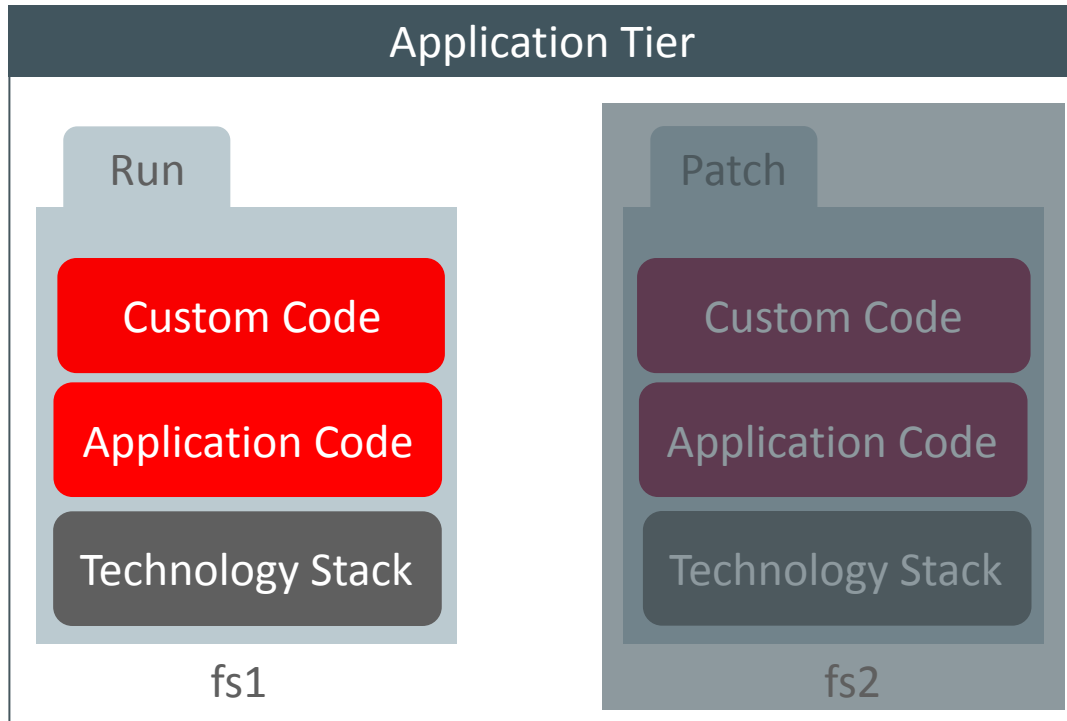
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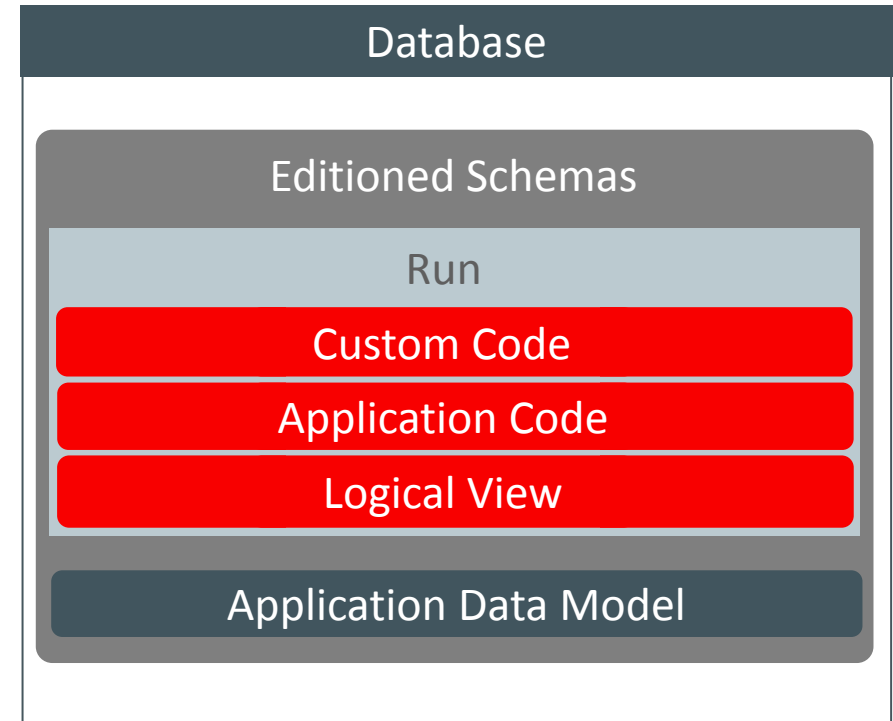
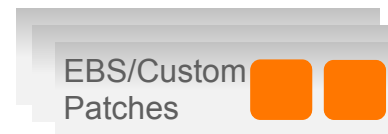
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Full Compliance

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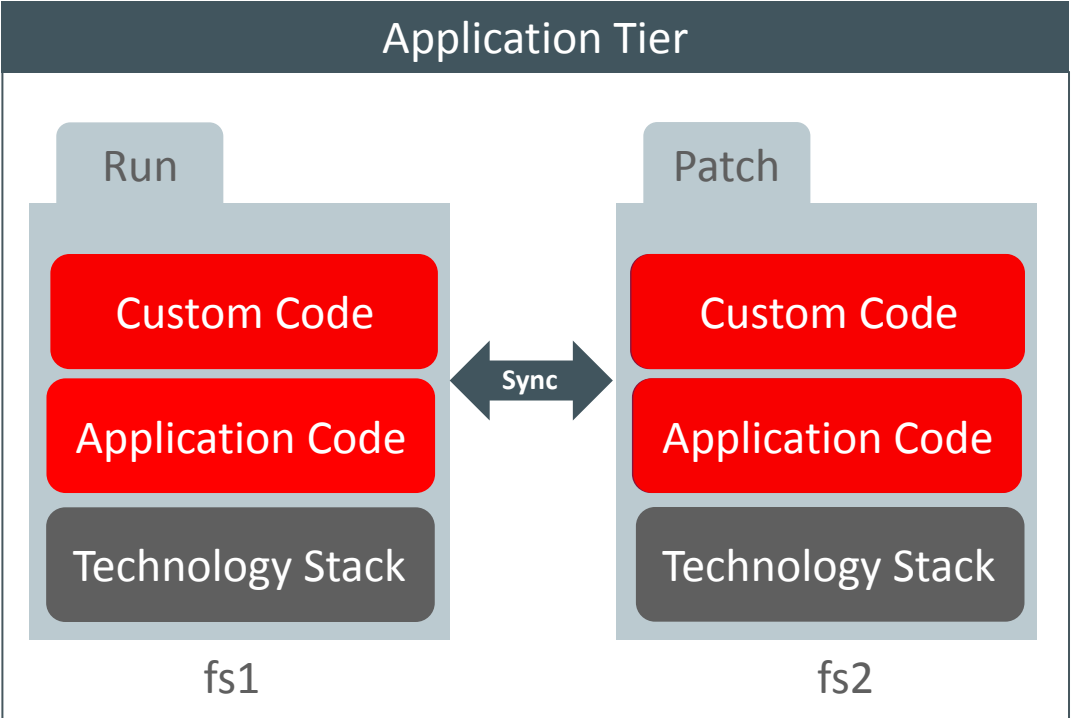
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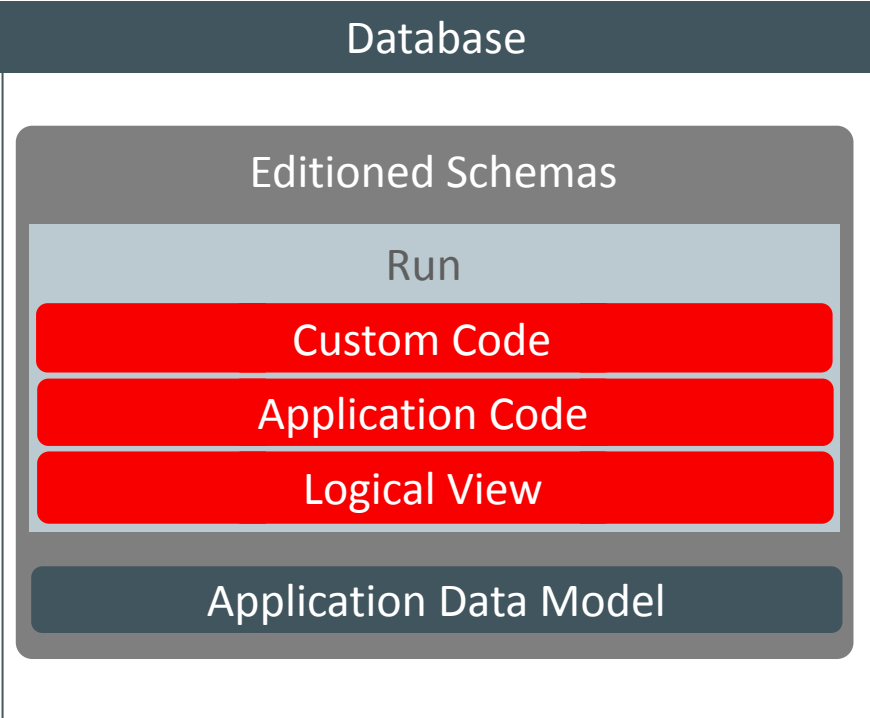
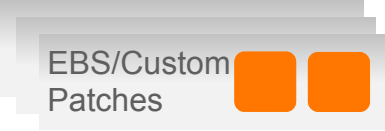
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Full Compliance

Online Patching Cycle

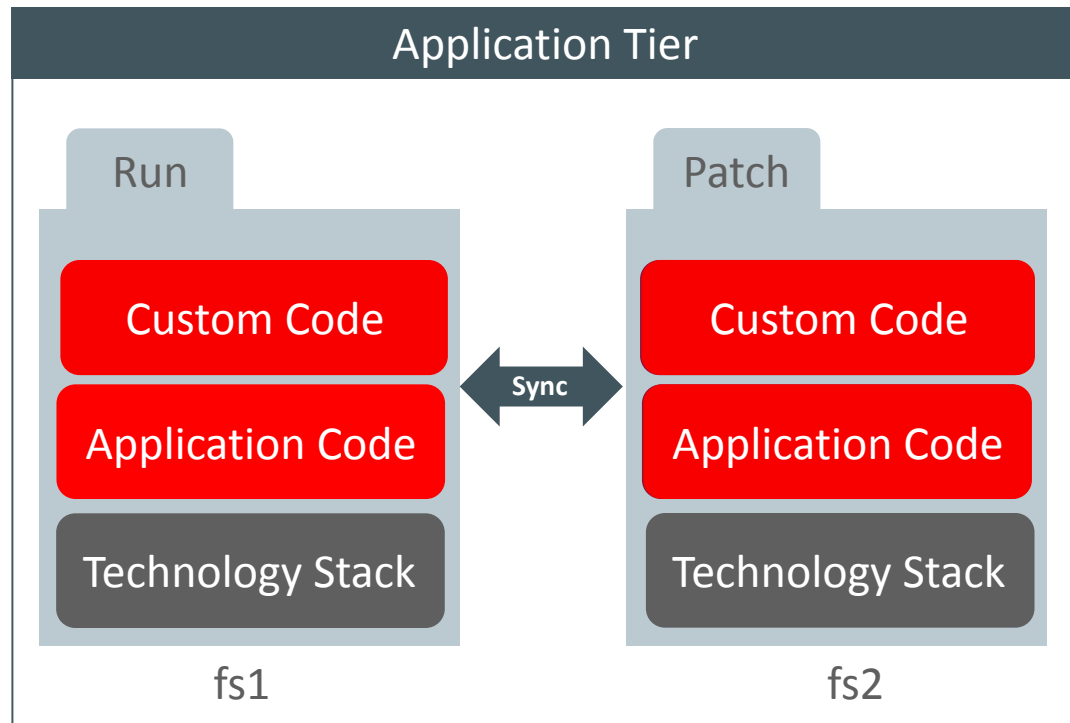
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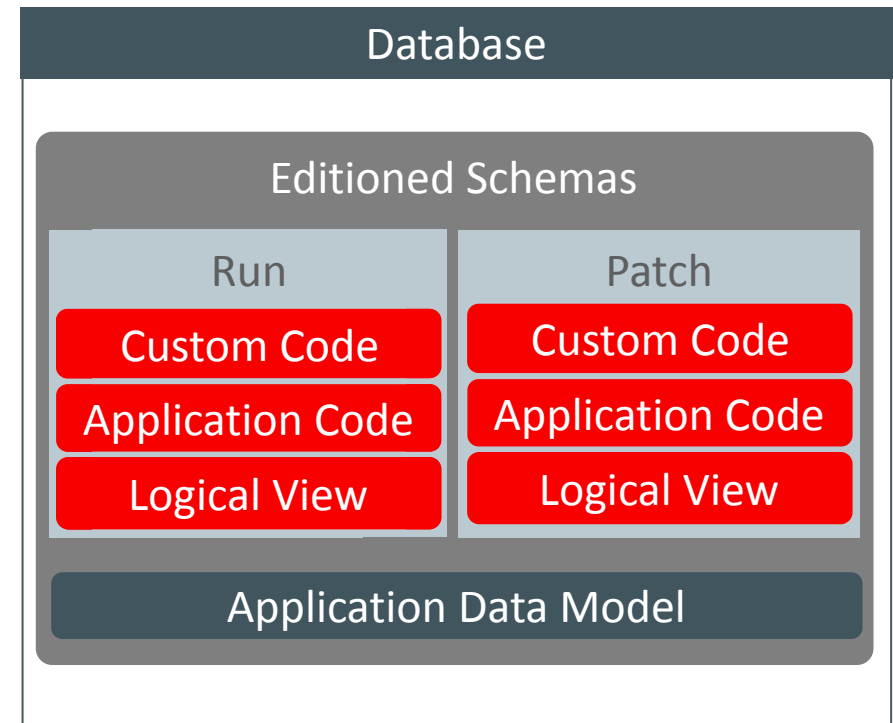
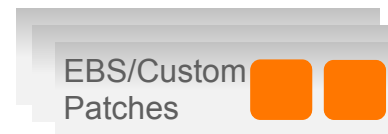
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Full Compliance

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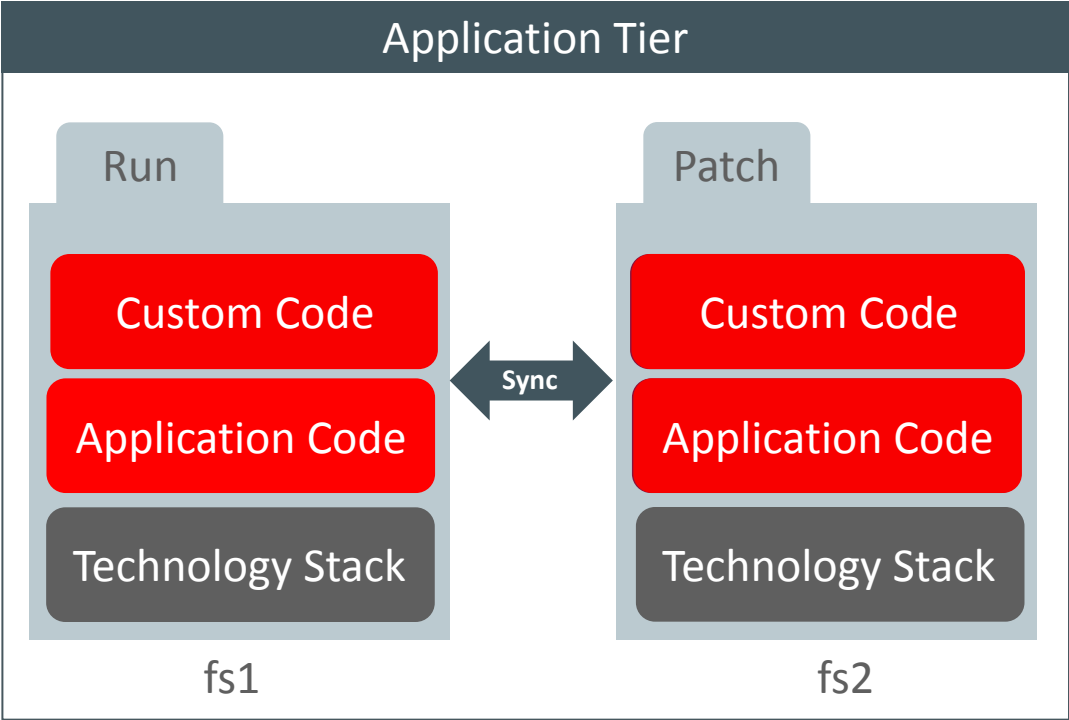
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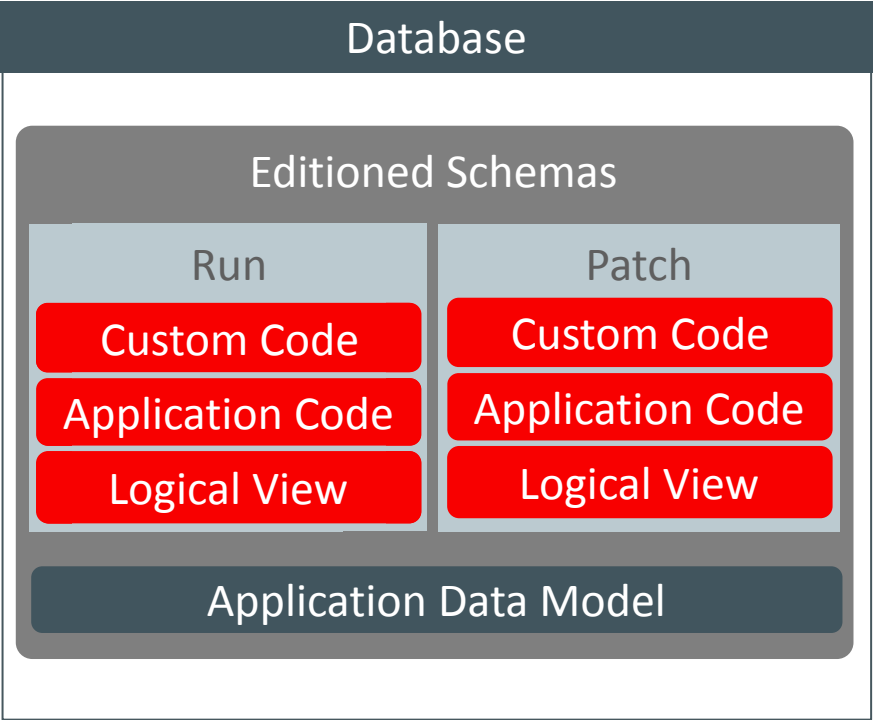
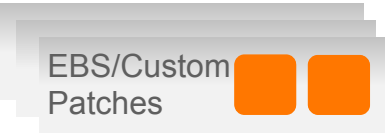
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Full Compliance

Online Patching Cycle

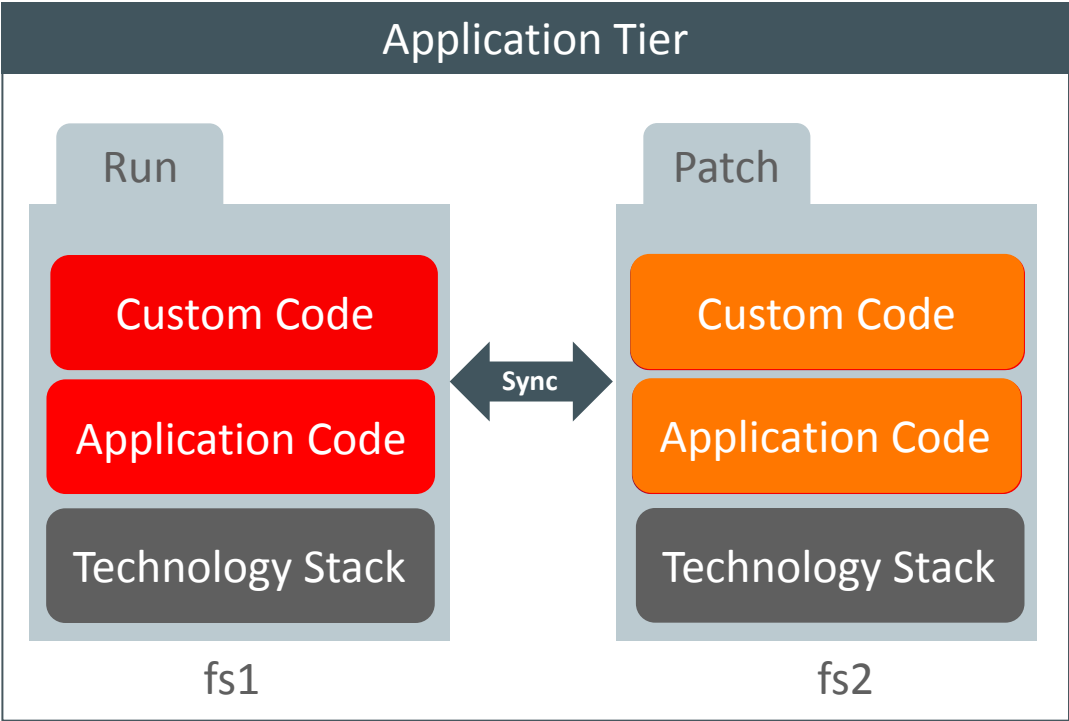
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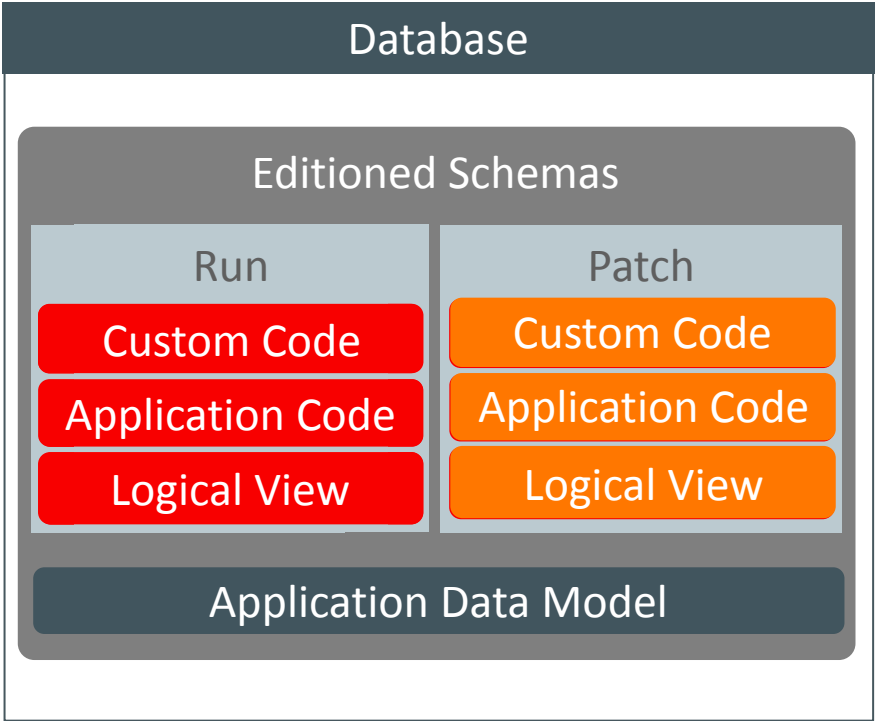
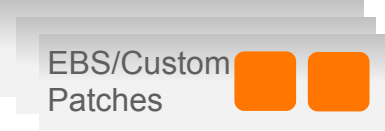
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Full Compliance

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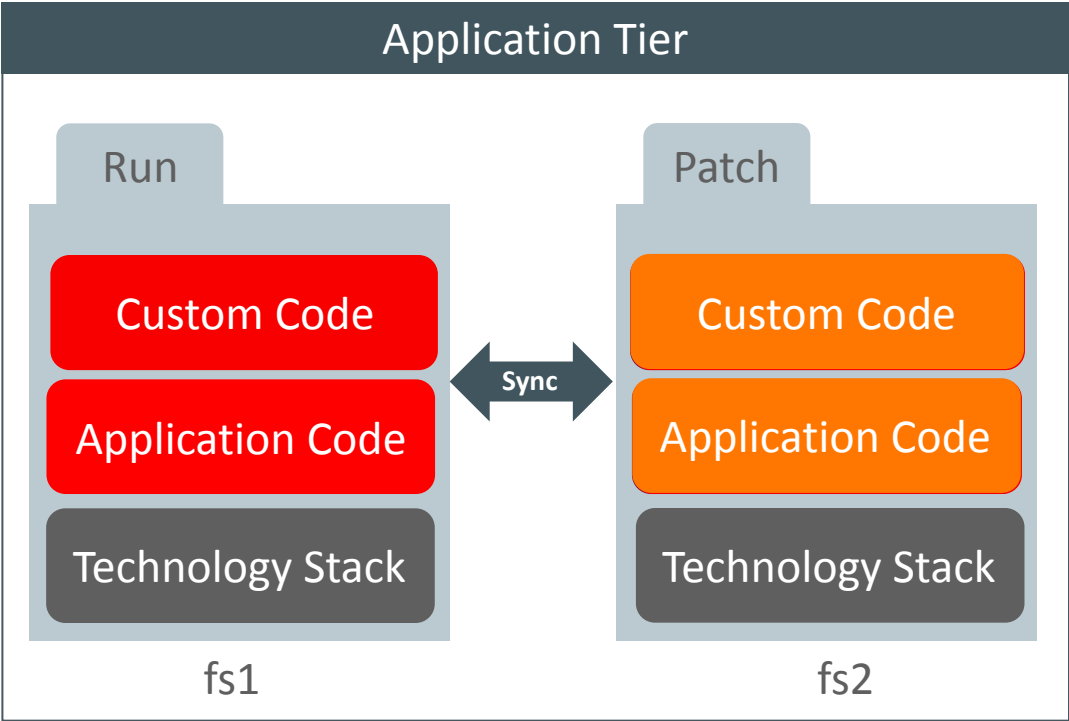
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Apply

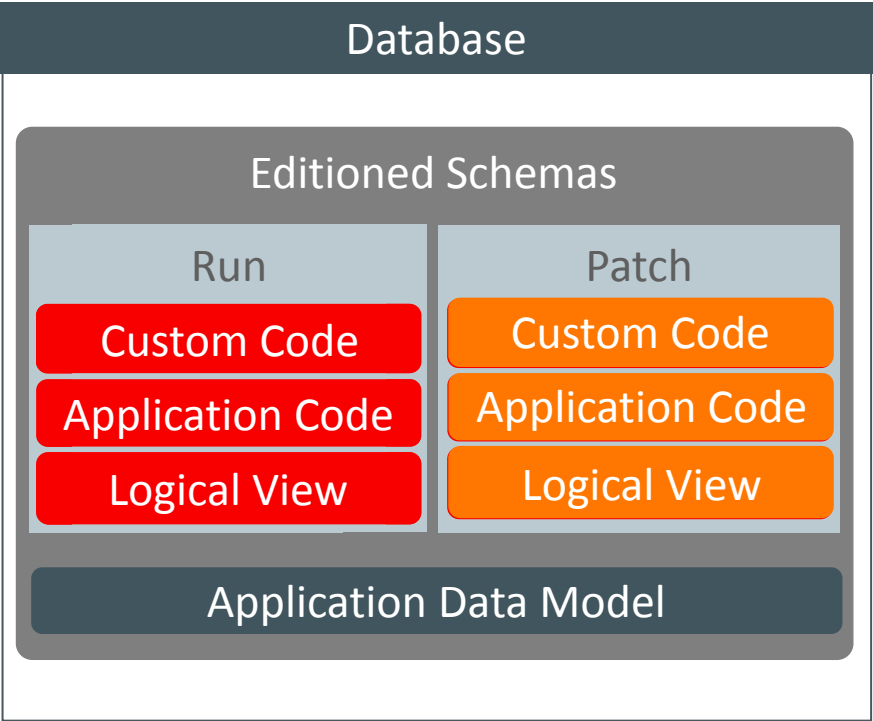
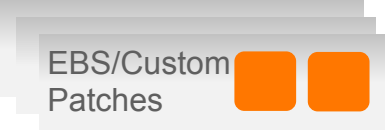
Finalize

Cutover

Cleanup



Dual File Systems



Schemas Editions Enabled



Maintain Customizations with Online Patching in R12.2

Full Compliance

Online Patching Cycle

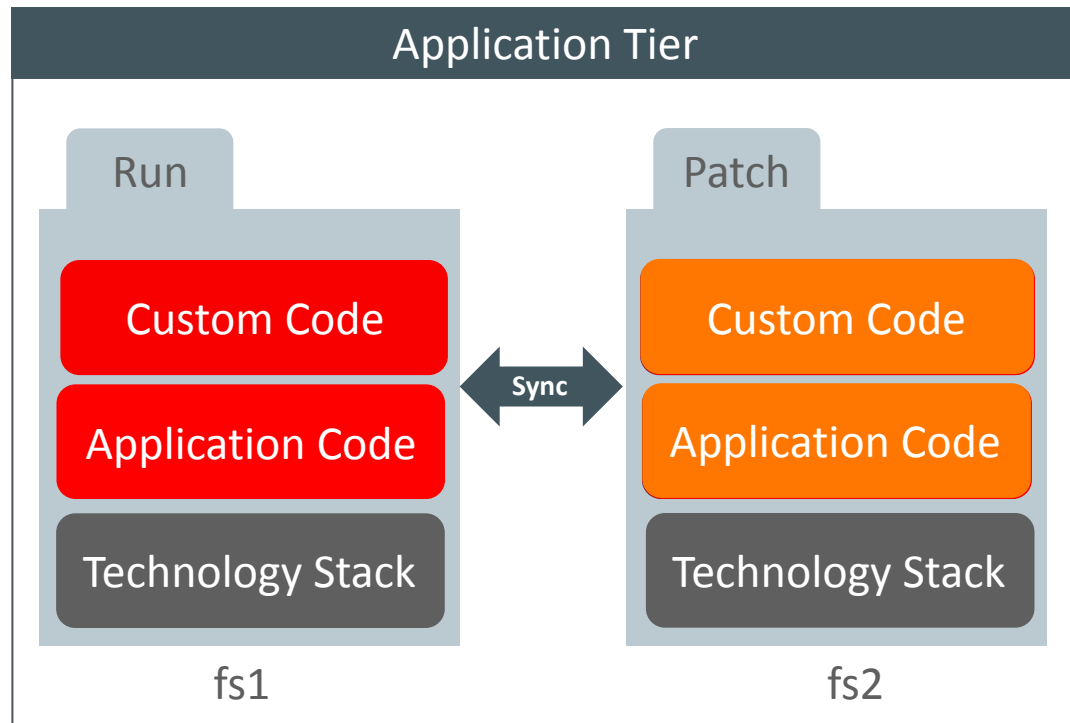
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Apply

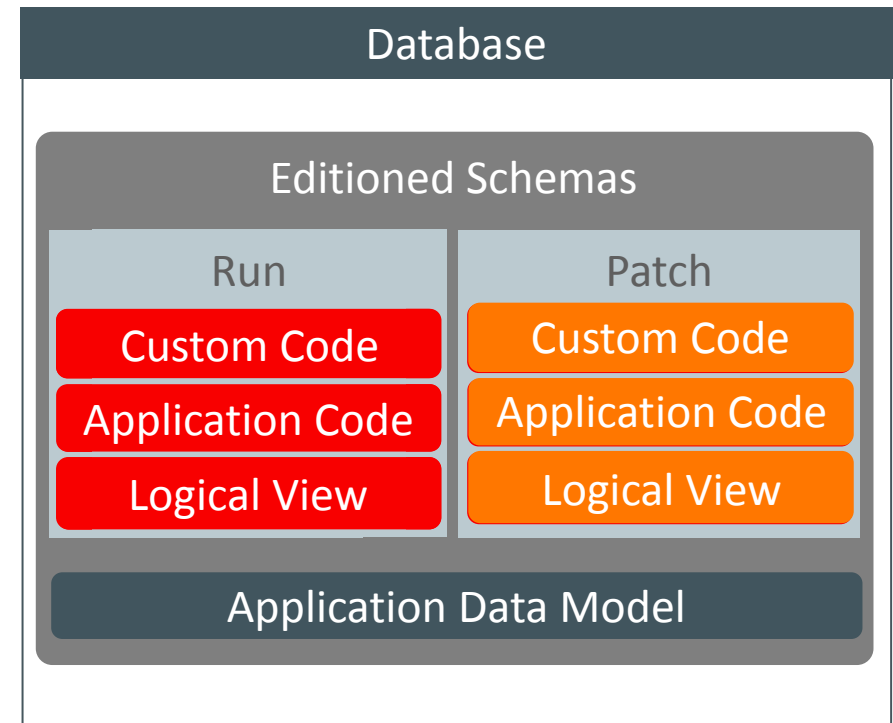
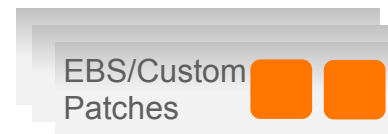
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Dual File Systems



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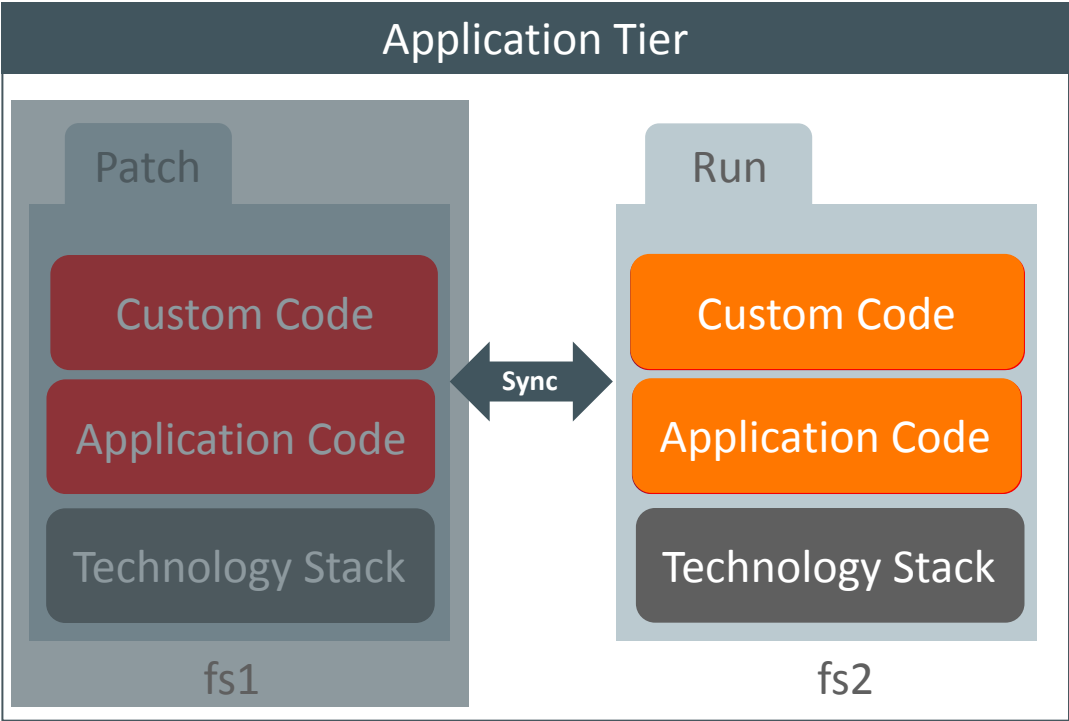
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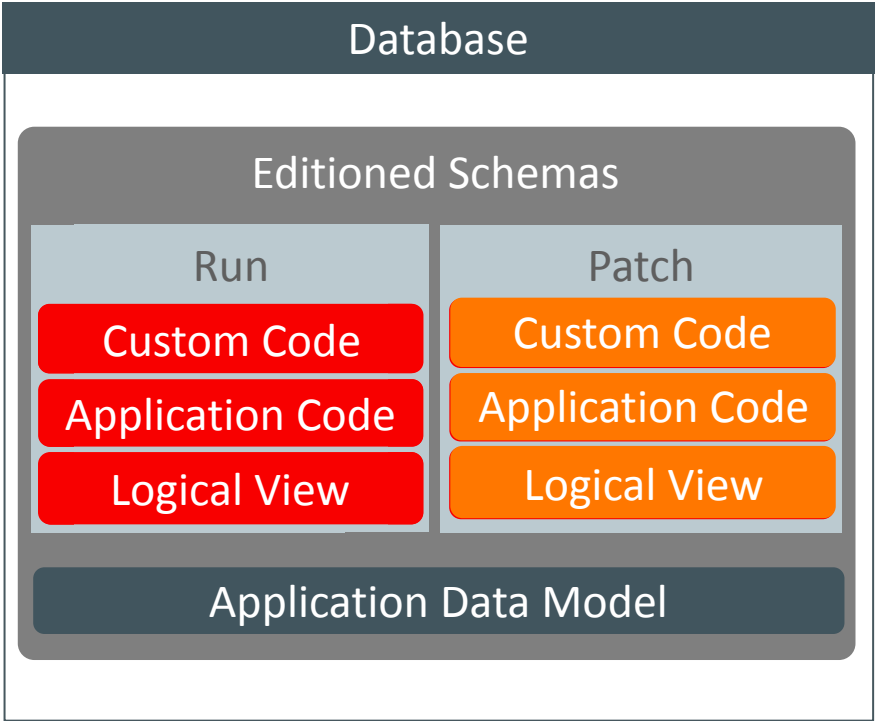
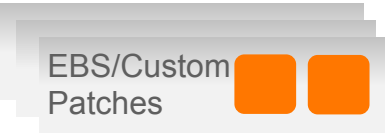
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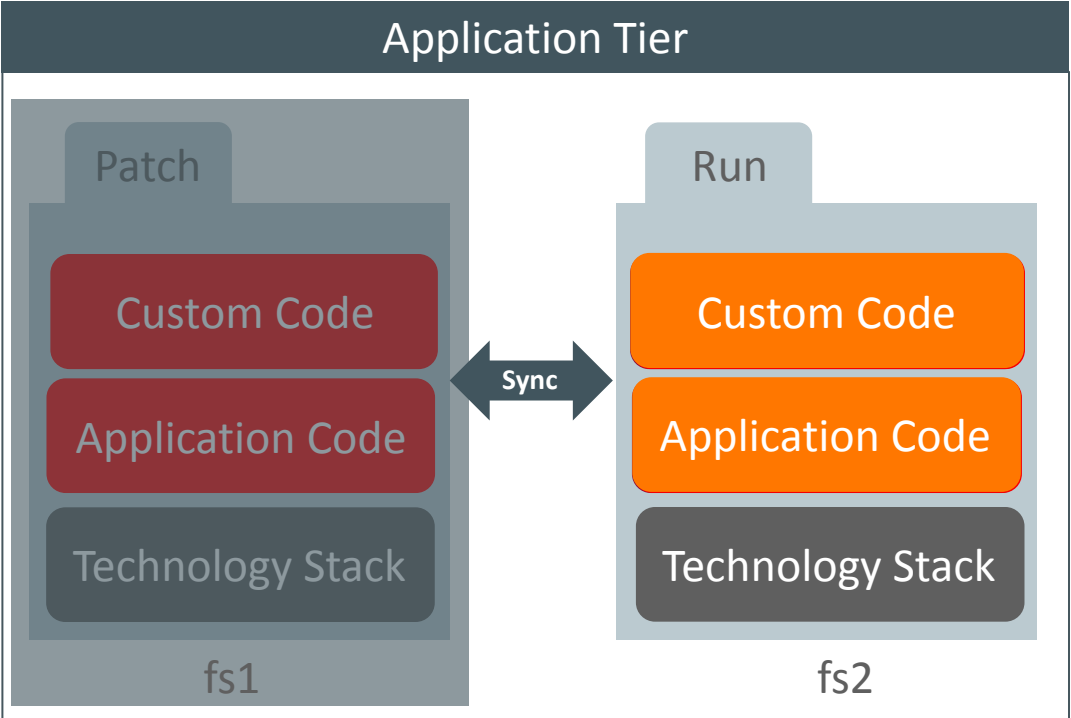
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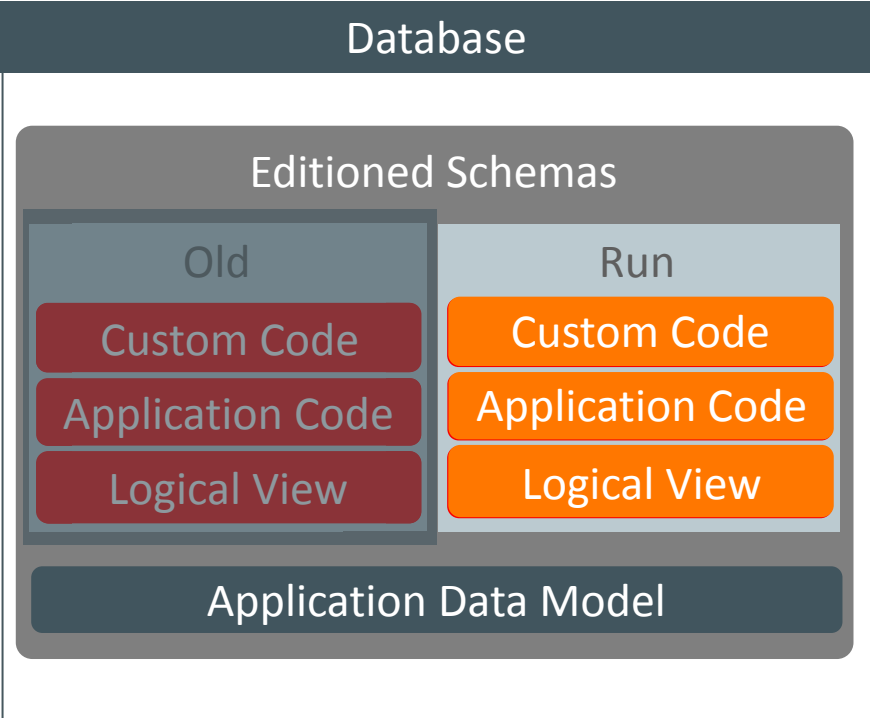
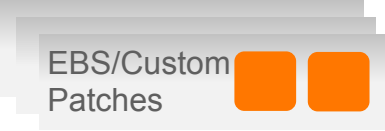
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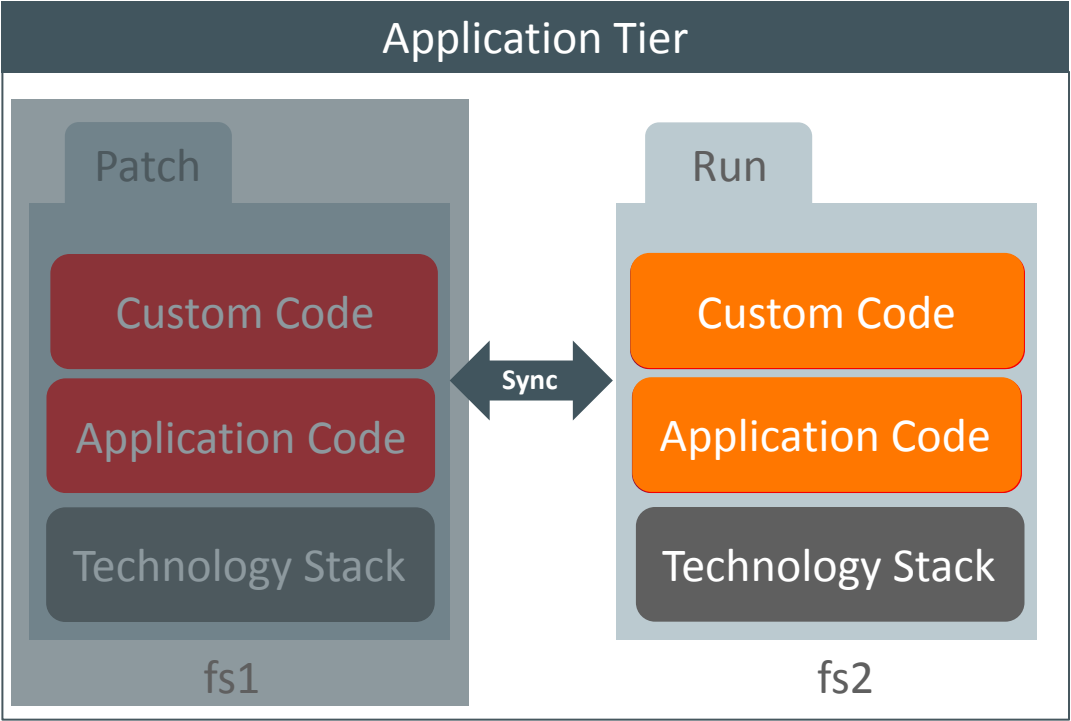
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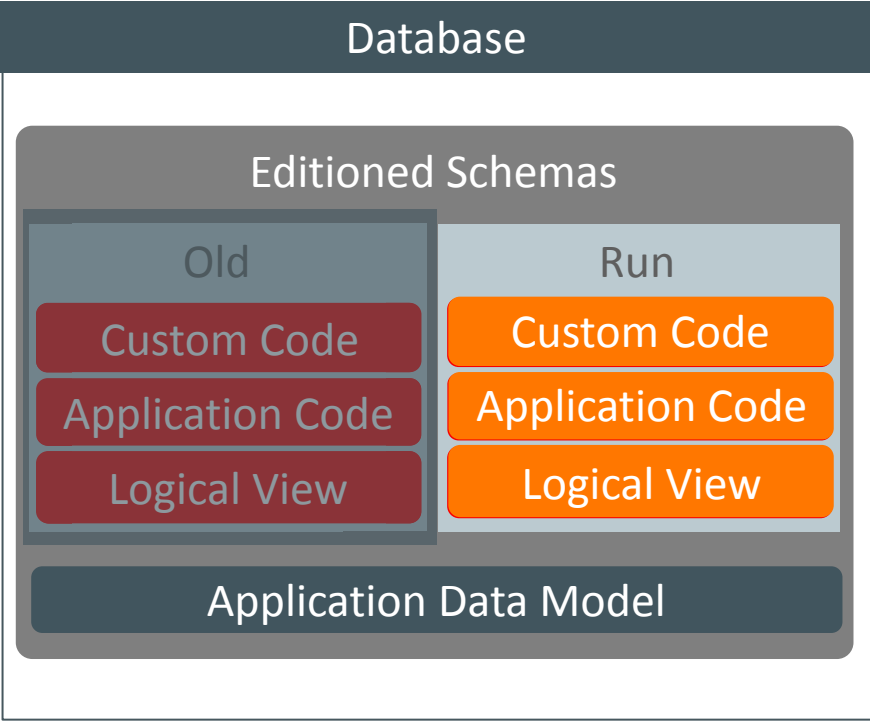
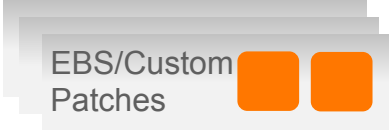
Finalize

Cutover

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Dual File Systems



Schemas Editions Enabled



New R12.2 Development and Deployment Process

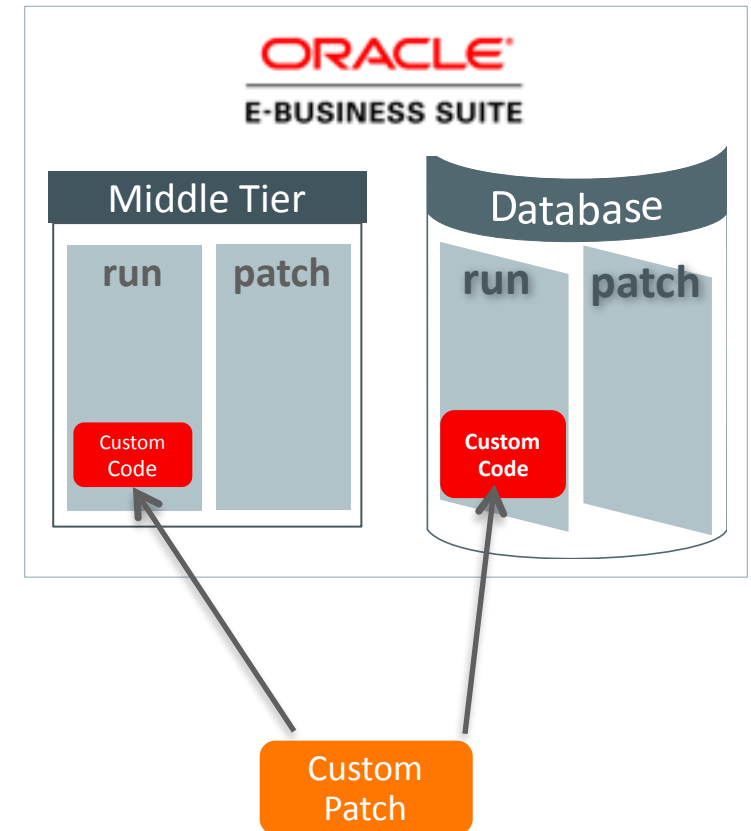
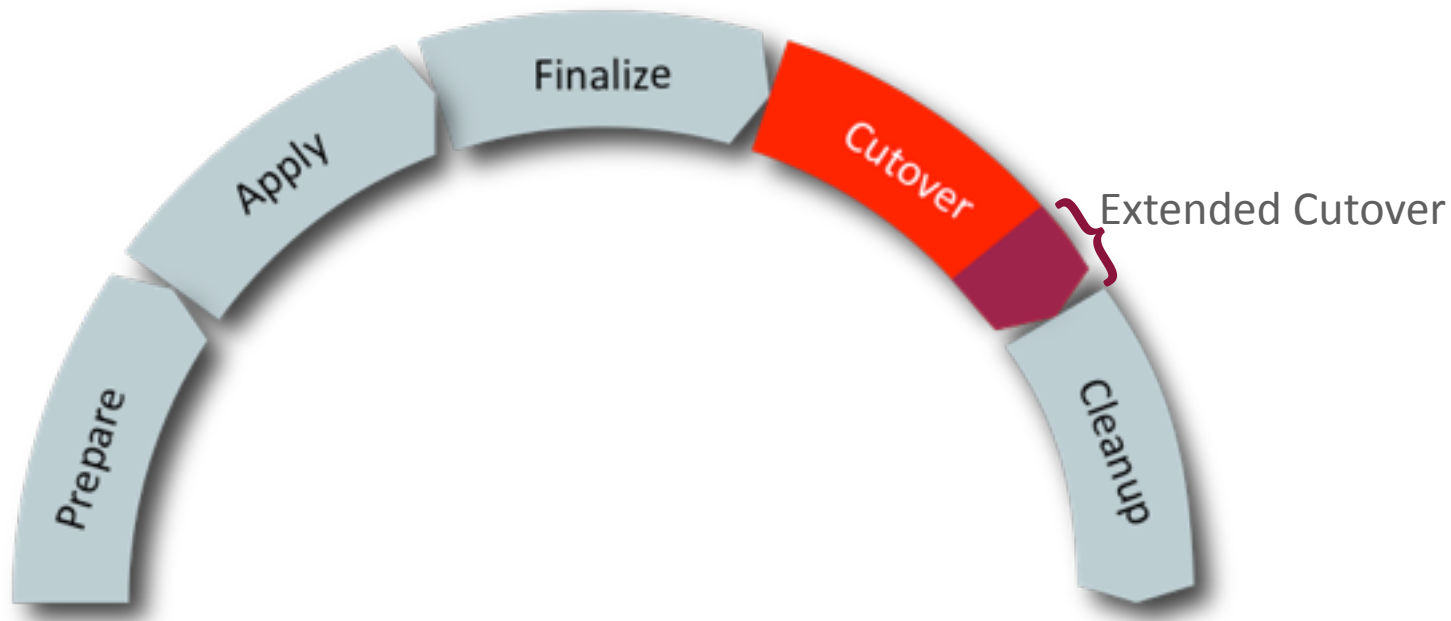
Full Compliance

- Use the new Development and Deployment Process for future customizations
- Reference: [1577661.1](#) **Developing and Deploying Customizations in Oracle E-Business Suite Release 12.2**

R12.2 Development and Deployment Process

Minimal Compliance

- Customizations Deployment extend the Cutover Phase
- Deployment targets the Run File system and Run Edition



R12.2 Development and Deployment Process

Minimal Compliance

- Minimal set of development standards required to develop new customizations
 - Data Model Access Pattern
- Deployment of customizations extend the Cutover Downtime
- Deployment targets the Run File System and Run edition of the database

Tools to Help Manage Customizations in R12.2

- Oracle Applications Manager - Patch Wizard
- Oracle E-Business Suite Plug-in for Enterprise Manager Cloud Control

Tools to Help Manage Customizations

Patch Wizard

Register Flagged Files : ADOAGC03 Select Feature Register Flagged Files Go

Last Updated : 14-Aug-2006 16:50:50 Import Export Add Cancel Apply

Filter Criteria

Product Abbreviation contains

Directory contains

Go Clear

Select and ... Delete

Select All | Select None

Select	Product Abbreviation	Directory	File Name	Comments
<input type="checkbox"/>	FND	3rdparty/wintertree	accent.tlx	You can put your local directory name in here to note the location of the customized files.
<input type="checkbox"/>	FND	3rdparty/wintertree/N	sscenb2.clx	The directory of the customized files is : xx/3rdparty/wintertree/N
<input type="checkbox"/>	FND	3rdparty/wintertree/NL	sscedu.tlx	

Add to Support Cart Import Export Add Cancel Apply

Tools to Help Manage Customizations

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Tools to Help Manage Customizations

Patch Wizard

Register Flagged Files : ADOAGC03

Last Updated : 14-Aug-2006 16:50:50

Filter Criteria

Product Abbreviation contains

Directory contains

Select	Product Abbreviation	Directory	File Name	Comments
<input type="checkbox"/>	FND	3rdparty/wintertree	accent.tlx	You can put your local directory name in here to note the location of the customized files.
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Register customized files


Analyze impact to customized files

Tools to Help Manage Customizations

Patch Wizard

Direct, Indirect and Customization Impact Analysis

Patch Impact Analysis for Patch 94456002-R12: ADDAGC05

Patch Description **R12 mas_pf: R12 Patchset R12.MAS_PF.A**
 Patch Readme 

Total Files in Patch **32175**
 Files to install **642 (2.00%)**

Direct Impact Summary	Indirect Impact Summary
Applications Patched 18	Unchanged Files Affected 25 JSPs
File Types Installed 23	Menu Navigation Trees Affected 4 Responsibilities, 12 Paths
New Files Introduced 16	Diagnostics Tests to Re-Run 0 Test(s)
Existing Files Changed 626	
Flagged Files Changed 0	
Existing Files Unchanged 31533	
Non-US Language Patches Required 0	


- ✓ **TIP** Analysis on Unchanged Files Affected only available for JSPs
- ✓ **TIP** Click on the Prerequisite Patches link to toggle between Aggregate and Individual Impact Analysis
- ✓ **TIP** Aggregate Impact Analysis only for patches with metadata uploaded from InfoBundle.zip
- ✓ **TIP** Click on Patch ID in the Aggregate Impact Analysis Table to view individual Impact Analysis for Pre-reqs
- ✓ **TIP** Non-US Language Patches are considered required when there are non-US languages installed and the base patch contains new or changed file types.

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Analyze impact to customizations

Application Management Suite - Customization Management

Customizations Catalog



- Discovery & reporting of inventory of EBS customizations
- Ability to validate, package and deploy customizations across EBS instances
- Over 200 customization file types supported
- Interface with external Source Code Version Control systems
- Validation of the custom objects using:
 - Oracle Defined Standards
 - Optionally, User Defined Standards
- Validates and reports readiness of customizations for Online Patching

OMCS - Oracle Functional Services

Maximizing Value for Hybrid Cloud Deployments



Functional Help Desk Services

- Oracle SPOC Incident & Problem Management
- Minor CEMLI enhancement (legacy)
- Apps Cloud Extensions on PaaS
- Continual Service Improvement

Cloud Integration & Custom Services



- Managed Cloud Integration Service (MCIS) Setup
- CEMLI Migration
- CEMLI Advisory
- Cloud DR Testing Support



Technical Administration

- Non-Certified Configuration Oracle Applications
- Oracle Technology
- 3rd Party Products on Oracle
- @ Customer, @ Oracle, Oracle Tech Cloud

Automated Testing Support



- Regression Testing
- Oracle Applications Testing Suite-based
- Performance Testing
- Leverage for UPK-based training

Program Agenda

- 1 Customizations 12.1 vs 12.2
- 2 Preparing Customizations for 12.2 Upgrade
- 3 12.2 Upgrade impact to Customizations
- 4 Managing Customizations in 12.2
- 5 Key Takeaways**

Key Takeaways

- Get Familiar with the new R12.2 Architecture
- Decide the standards compliance level to target
- Create an upgrade project for your customizations ahead of the 12.2 Upgrade
- Get Familiar with the Development and Deployment Standards for R12.2
- Take advantage of Online Patching to deploy your customizations, Full Compliance
- Use the Right Tools to Maintain your customizations

Safe Harbor Statement

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Integrated Cloud

Applications & Platform Services

ORACLE®