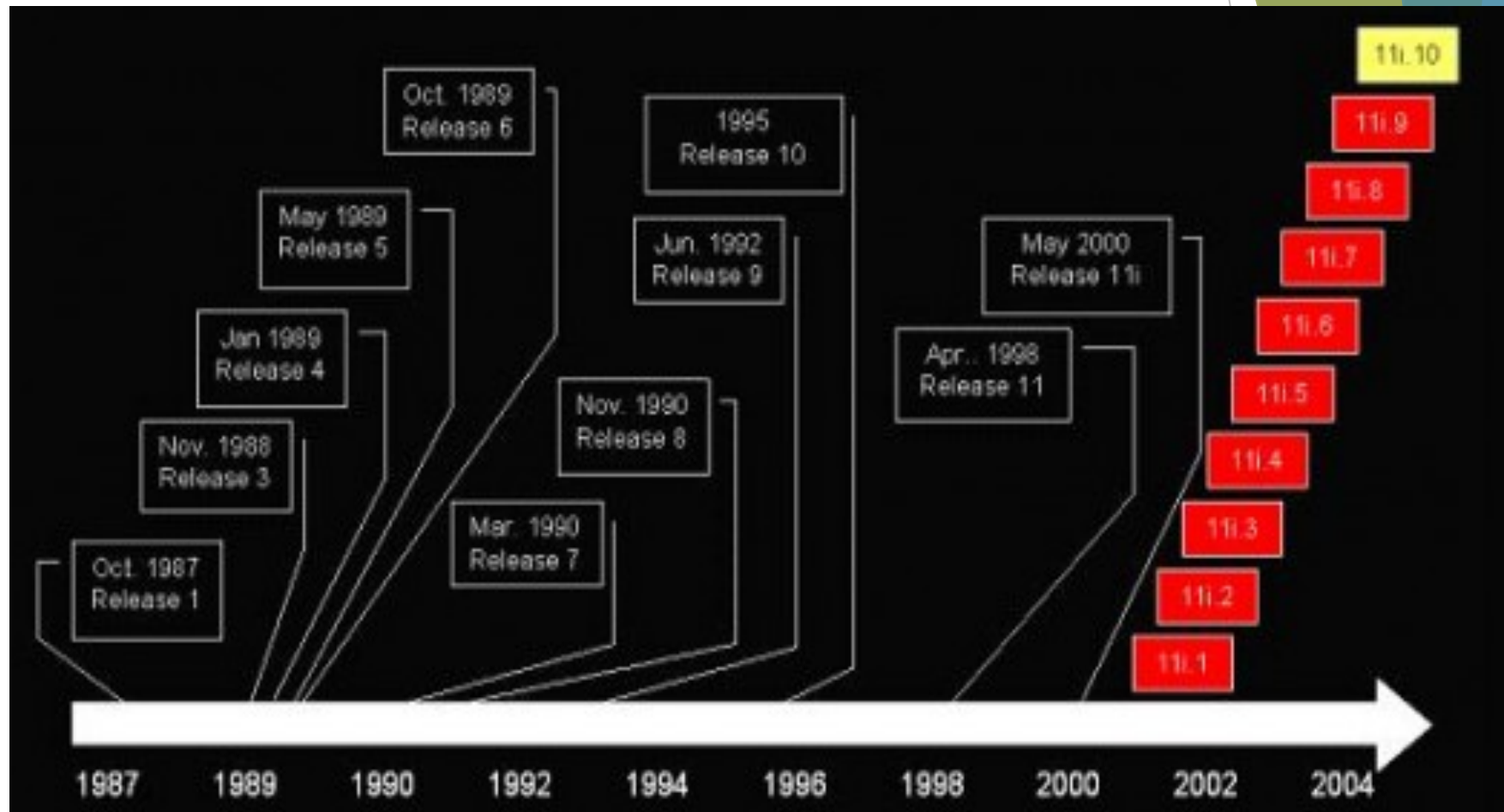


E-Business Architecture (R12.1.3)

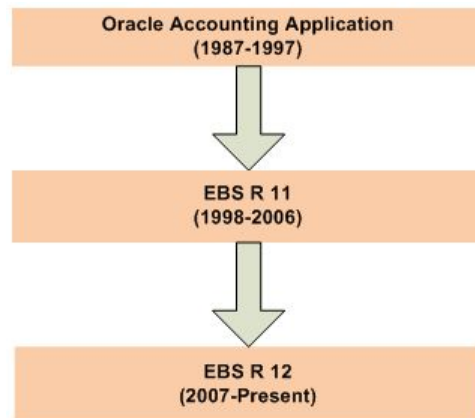
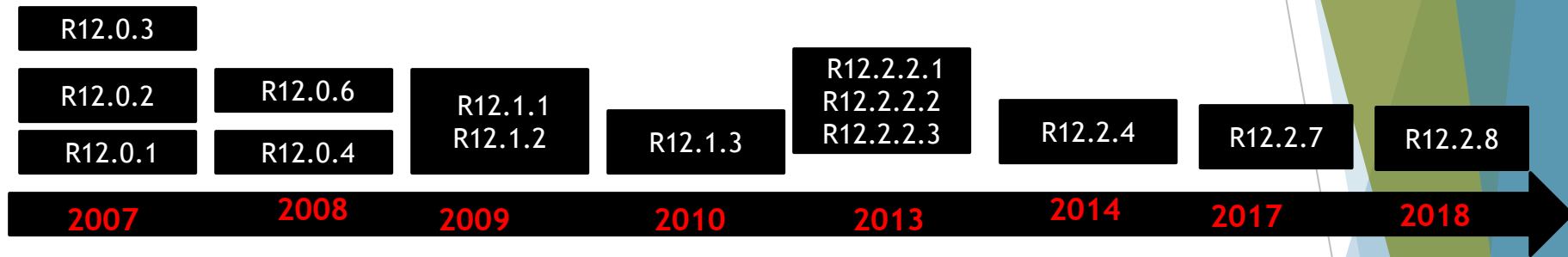
Outline

- ▶ E-Business Version History
- ▶ E-Business Modules
- ▶ E-Business Architecture
- ▶ E-Business FileSystem
- ▶ E-Business Login Hierarchy

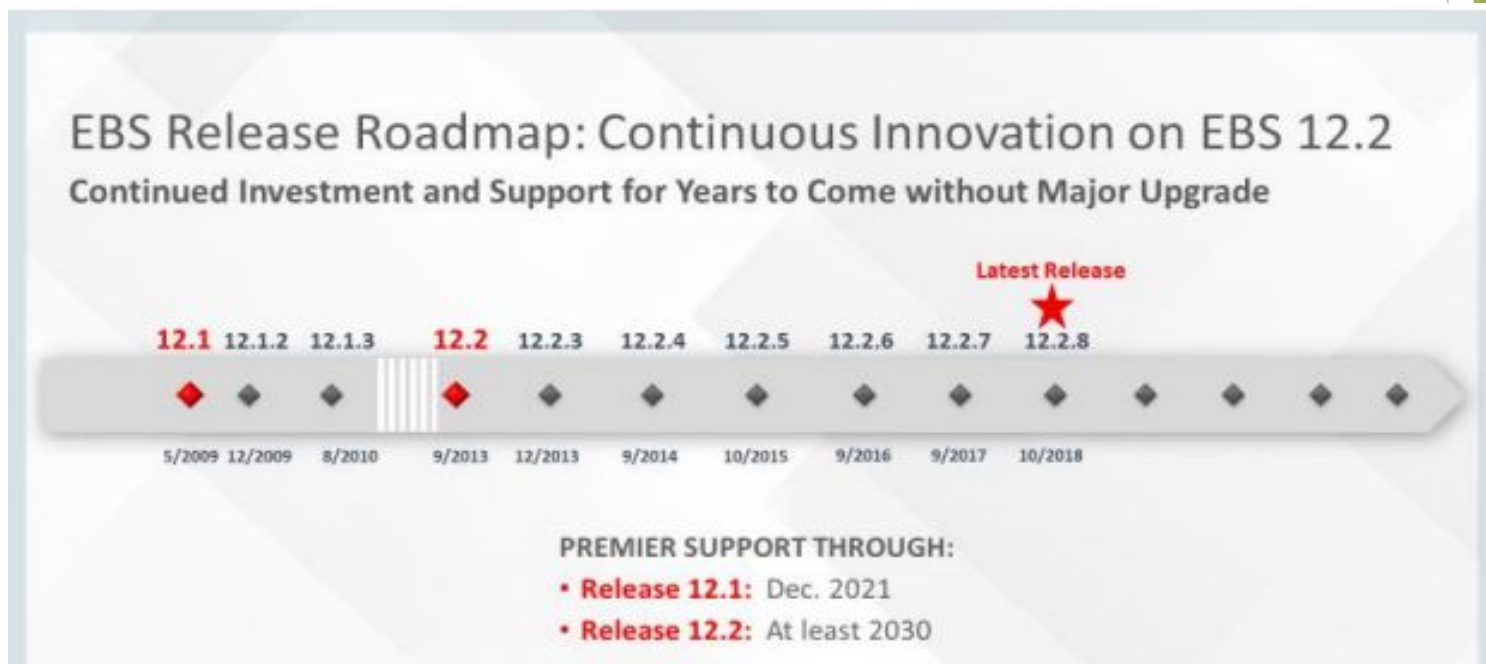
E-Business Version History



E-Business Version History



E-Business Version History



Oracle E-Business Suite Continuous Innovation Releases

Product	Latest Release	GA Date	Premier Support Through At Least	Extended Support	Sustaining Support
12.2	12.2.8	Oct 2018	Dec 2030	Not Applicable	Indefinite

<https://blogs.oracle.com/ebs/oracle-continuous-innovation-on-oracle-e-business-suite-122>

5

<http://www.oracle.com/us/support/library/lifetime-support-applications-069216.pdf>

E-Business Modules

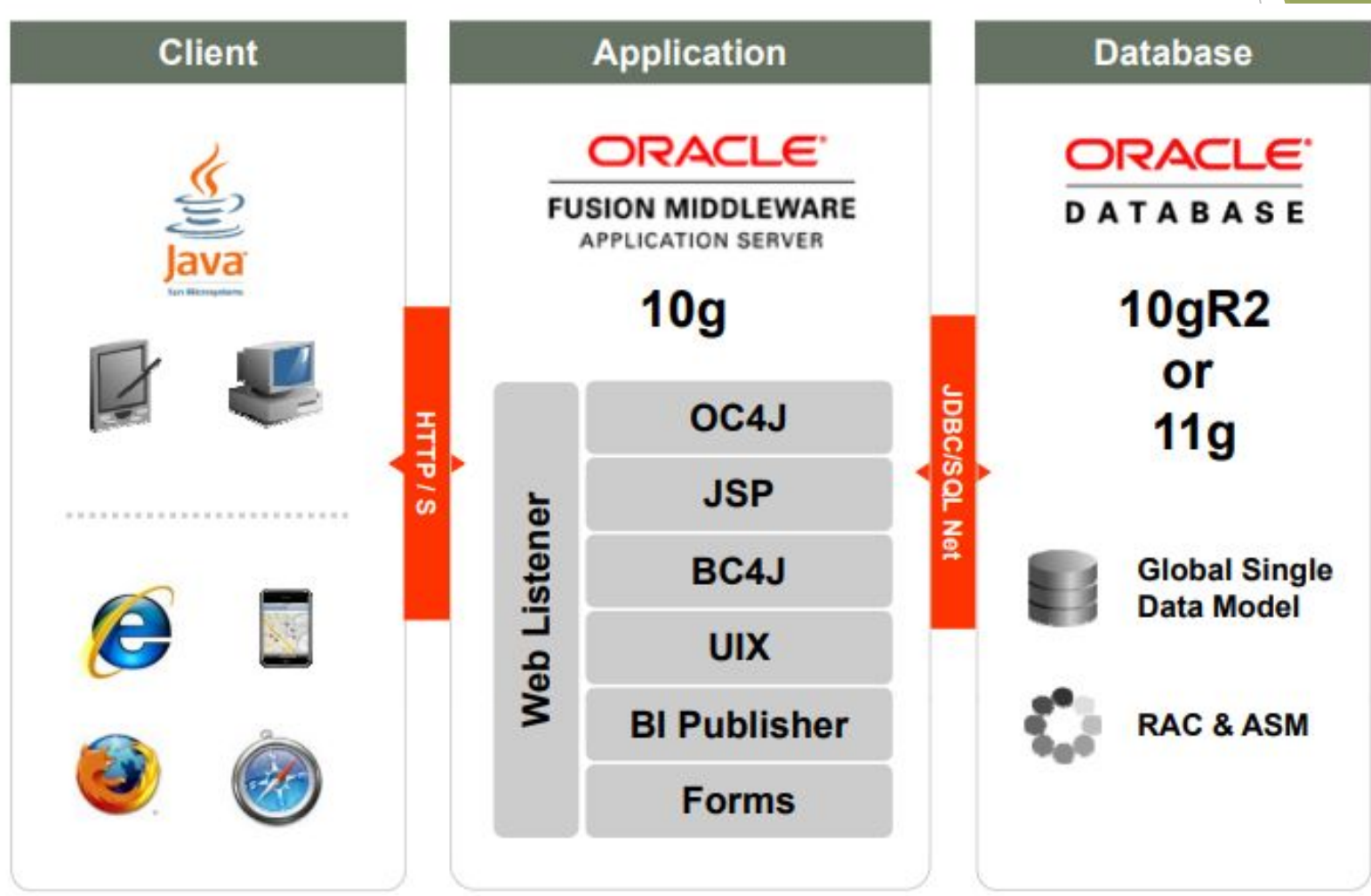
- ▶ To facilitate big businesses, Oracle Corporation have created collection of software in the category of ERP (Enterprise Resource Planning) known as modules, that are integrated to talk to each other and known as Oracle Applications or E-Business Suite.
- ▶ **Oracle ERP □ Oracle Ebusiness Suite(Ebiz) □ Oracle Apps all are same ☺**
- ▶ **Oracle is a complete enterprise suite of**
 - Financial,
 - Human Resources,
 - Manufacturing,
 - Supply Chain,
 - CRM,
 - Front Office Applications & many more modules

E-Business Architecture

	E-Business Version			
Layer	11.5.10.2	12.0.4	12.1.*	R12.2.*
Database RDBMS	9iR2 9.2.0.6	10gR2 10.2.0.4	11gR1 11.1.0.7	11.2.0.4 12c is supported
Developer Forms & Reports	6i 8.0.6.3	10g 10.1.2.2	10g 10.1.2.3	10.1.2.3
Web & Java	9iAS 1.0.2.2.2	10gAS 10.1.3.0.0	10gAS 10.1.3.4	Oracle WebLogic Server 10.3.6 in Oracle Fusion Middleware 11g Release 1 (11.1.1.6)
Java (JDK)	Jinitiator 1.3.1.24	Sun JRE 1.5.0_13	Sun JRE 1.6.0_10	Sun JRE 1.6.0_10

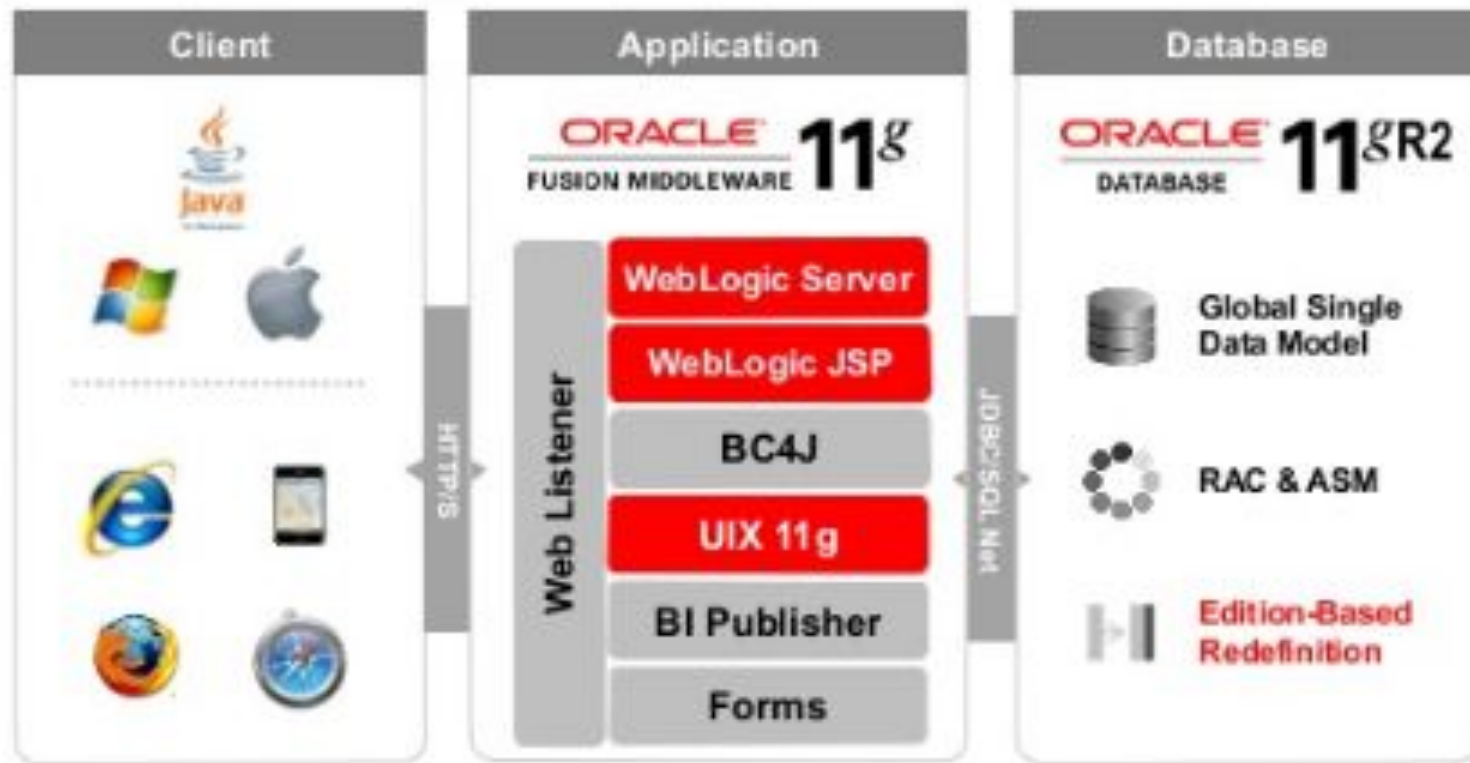
E-Business Architecture

For R12.1.*

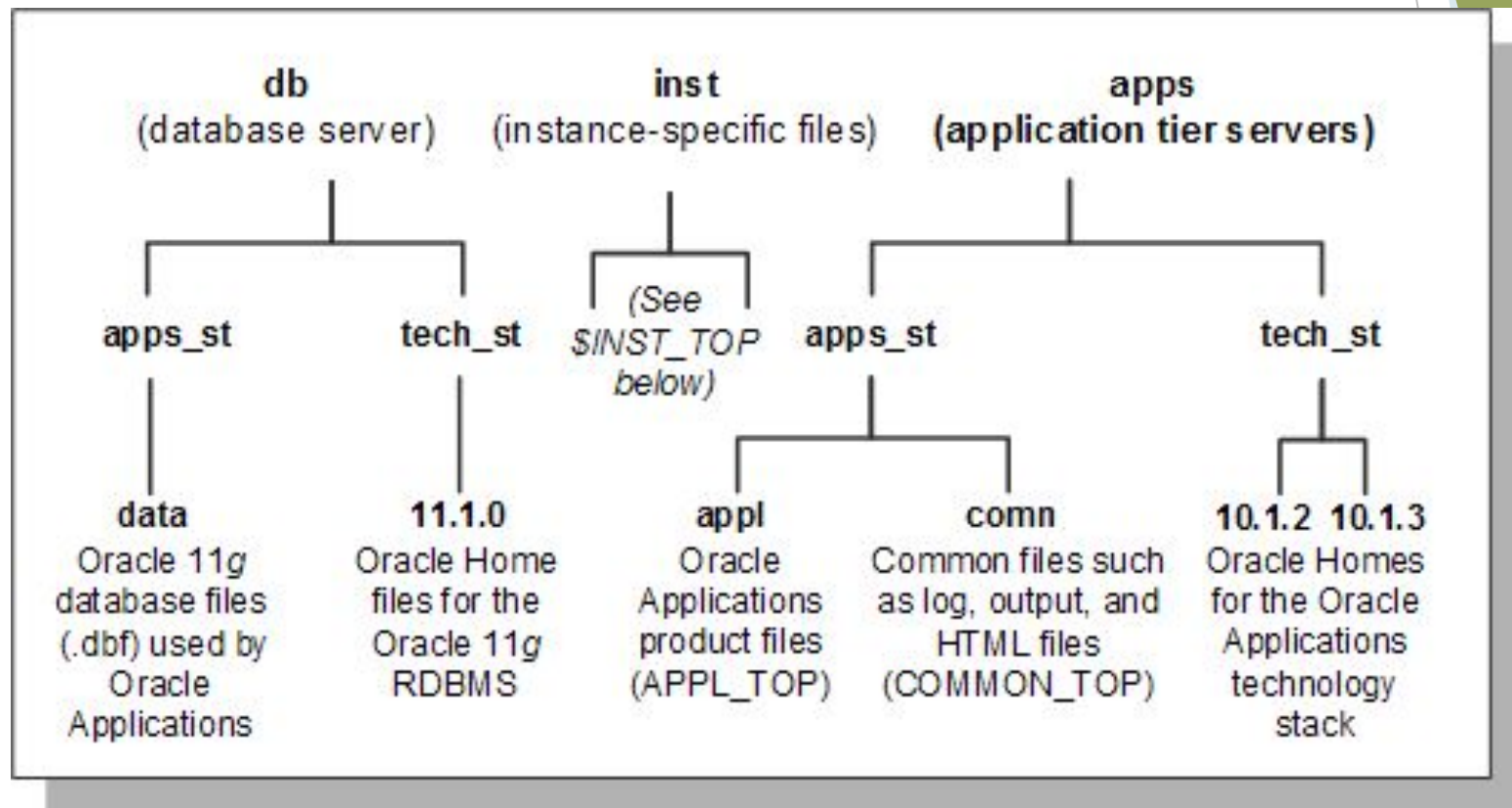


E-Business Architecture

Oracle E-Business Suite 12.2 Architecture



E-Business Architecture (Application Tier)



E-Business Architecture (Application Tier)

- ▶ `$APPL_TOP`
 - ▶ Top directory for all Oracle Application software
 - ▶ Contains `$PROD_TOP` for each product
 - ▶ Applications patches make changes in `APPL_TOP`
- ▶ Environment variables setup at login
 - ▶ Environment files
- ▶ Can be shared (shared `APPL_TOP`)
 - ▶ NFS mounted filesystem
 - ▶ Shared by two or more application tier servers
 - ▶ Apply patches once for all application tiers
 - ▶ Single point of failure

E-Business Architecture (Application Tier)

- ▶ Environment files are the type of configuration files usually used to set up a working environment to point to the various top-level directory structures such as `COMMON_TOP` and other environment variables such as `NLS_LANG` relevant to Oracle Applications configuration. During the installation, several environment files are created, usually in the root of different `ORACLE_HOMEs`.
- ▶ For applications developers, the most important environment file is the consolidated environment file `APPS<CTX_NAME>.env` in the `APPL_TOP` directory, where `<CTX_NAME>` is
- ▶ the configuration context name, usually in the format `<DATABASE_SID>_<HOSTNAME>`.

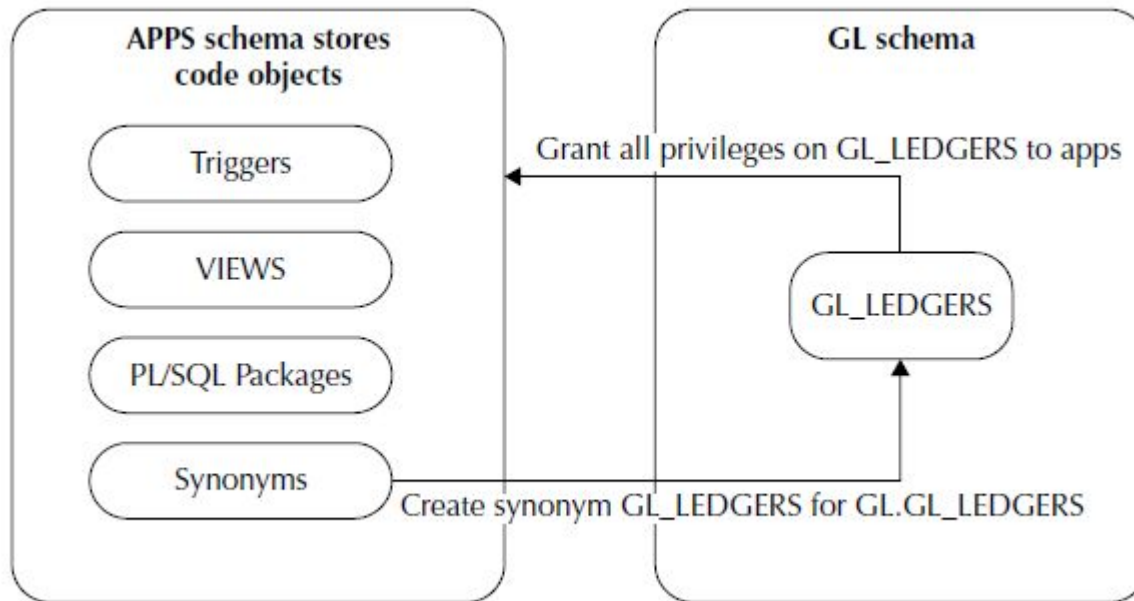
E-Business Architecture (DB Tier)

- ▶ **Product schemas** Contains only data-related objects such as : *product database tables and sequences*. An example is the GL (General Ledger) product. All of the data-related tables are owned by the GL schema in the database.
- ▶ **APPS schema** Contains database code-related objects for all the products : such as PL/SQL code, views, triggers, and others.

E-Business Architecture (DB Tier)

- ▶ To achieve a higher reuse of data sharing, Oracle Applications utilize an APPS database schema.
- ▶ Imagine for a second if all the database code and data objects were owned and stored in the product-specific schemas such as GL (General Ledger), AP (Payables), PO (Purchasing), and others.
- ▶ In this scenario, it would be really difficult to manage the access rights for all the objects that, for example, a database stored procedure needs to access in other product schemas.
- ▶ The approach used in Oracle Applications is to have database synonyms in the APPS schema for each database table and sequence in individual product schemas, and in addition to that, each product schema grants full privileges to APPS schema

E-Business Architecture (DB Tier) - Module/Application Specific



E-Business Architecture

(DB Tier - Import SCHEMA's)

- ▶ **APPLSYS** This schema contains objects from the Oracle Applications foundation and technology layer. Examples of the products in this category are AD (administration utilities) and FND (Applications foundation).
- ▶ **APPLSYSPUB** This schema is a special one and is used only for the purposes of the initial user login process to validate a user's credentials.

E-Business - Queries

select product_group_name, release_name, applications_system_name,
aru_release_name from FND_PRODUCT_GROUPS

PRODUCT_GROUP_NAME	RELEASE_NAME	APPLICATIONS_SYSTEM_NAME	ARU_RELEASE_NAME
Default product group	12.1.3	VIS	R12

select * from all_users where username='GL'

USERNAME	USER_ID	CREATED
GL	41	25-NOV-02

select * from all_objects where object_name ='GL_LEDGERS'

OWNER	OBJECT_NAME	SUBOBJECT_NAME	OBJECT_ID	DATA_OBJECT_ID	OBJECT_TYPE
GL	GL_LEDGERS	(null)	1936563	3015387	TABLE
APPS	GL_LEDGERS	(null)	1936600	(null)	SYNONYM

E-Business - LoginScreen



Login - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://glo.dev.com:8000/OA_HTML/RF.jsp?function_id=1032925&resp_id=-1&resp_appl_id=-1&security_group_id=0&lang_code=US&par

ORACLE®



*User Name
(example: michael.james.smith)

*Password
(example: 4u99v23)

Login Assistance

Accessibility

Select a Language:
[English](#)

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E-Business - UI

ORACLE E-Business Suite

Favorites ▾ Diagnostics Logout Preferences Help Personalize Page

Enterprise Search All Go Search Results Display Preference Standard ▾

Logged In As **OPERATIONS**

Oracle Applications Home Page

Personalize "Main Menu"
Personalize Table Layout: (headerTable)

Personalize

- ⊕ @Workflow
- ⊕ Advanced Planning Administrator
- ⊕ AH&L GENERAL LEDGER SUPER USER
- ⊕ Alert Manager, Vision Enterprises
- ⊖ Application Developer
 - Profile
 - Flexfield
 - Flexfield Test
 - Key
 - Descriptive
 - Concurrent

Main Menu

SubMenu

Functions(OAF/Form)

Responsibility

User

Personalize "Worklist"

Personalize "Notifications Worklist Function"

Personalize "Notification List"

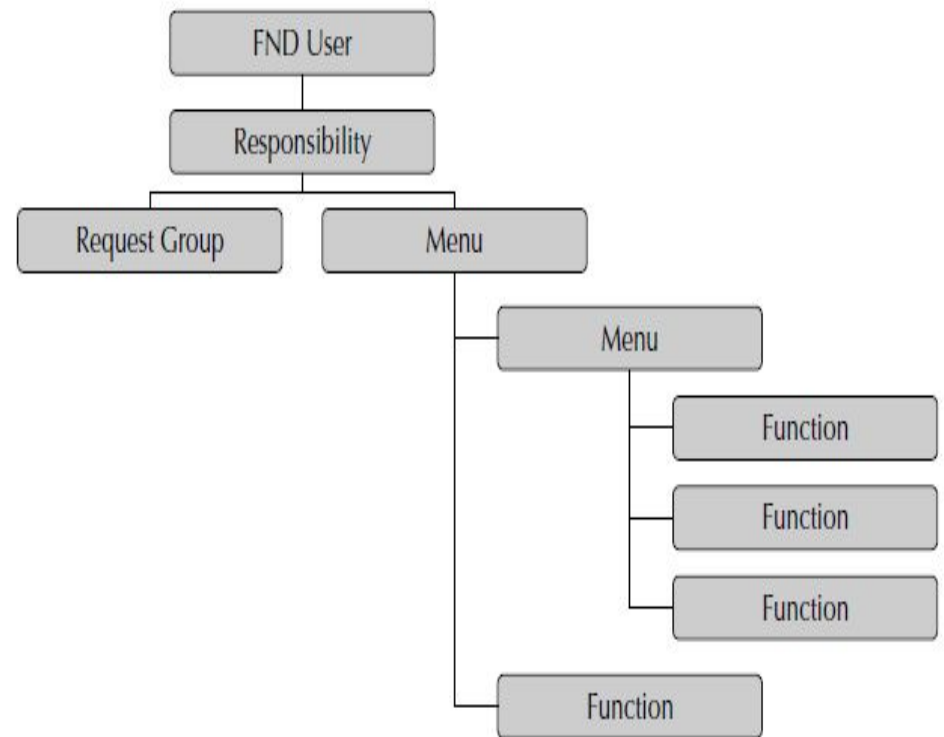
Full List

From	Type	Subject	Sent ▾	Due
	SFM Standard	Controller services are not running	02-Apr-2019	02-Apr-2019
	XXABCWF Hello WF	Hello Message	30-Mar-2019	
	XXABCWF Hello WF	Hello Message	30-Mar-2019	
	RRMRA Sending Notification To Manager	Message to Manager	27-Mar-2019	
Stock, Pat	PO Approval	Standard Purchase Order 6065 has been approved	18-Mar-2019	
Stock	PO Approval	Blanket Release 6063-1 has been	13-Feb-2019	

⏪ Previous 1-25 ▾ Next 25 ⏩

E-Business - Login Hierarchy

- ▶ USER
 - ▶ RESPONSIBILITY
 - ▶ MAIN MENU
 - ▶ SUB-MENU
 - ▶ FUNCTION (OAF / FORM)
 - ▶ FUNCTION(OAF / FORM)
 - ▶ ..
 - ▶ ...
 - ▶ ...
 - ▶ ..



E-Business - Login Hierarchy

- ▶ A **responsibility** is a collection of business functionalities, such as UI screens and reports, that is granted to Oracle Applications users for the purpose of access control to the screens and data that are related to the user's role within the organization.
- ▶ A **menu** is a reusable grouping of application functionality and consists of functions and other menus.
- ▶ A **request group** is a grouping of reports and concurrent programs that is assigned to a responsibility.

E-Business Suite - File System

The diagram illustrates the file system structure of E-Business Suite, organized into two main tiers:

- Application Tier**: Contains the `/oraAS` directory, which is the root of the application files.
- Database Tier**: Contains the `/oraDB` directory, which is the root of the database files.

The `/oraAS` directory structure is shown as follows:

Name	Ext	Size	Changed	Rights	Owner
ftp			7/22/2014 4:...	rw-rw-rw-	applmgr
fun			7/22/2014 4:...	rw-rw-rw-	applmgr
fv			7/22/2014 4:...	rw-rw-rw-	applmgr
gcs			7/22/2014 4:...	rw-rw-rw-	applmgr
ghr			7/22/2014 4:...	rw-rw-rw-	applmgr
gl			7/22/2014 4:...	rw-rw-rw-	applmgr
gma			7/22/2014 4:...	rw-rw-rw-	applmgr
gmd			7/22/2014 4:...	rw-rw-rw-	applmgr
gme			7/22/2014 4:...	rw-rw-rw-	applmgr
gmf			7/22/2014 4:...	rw-rw-rw-	applmgr
gmi			7/22/2014 4:...	rw-rw-rw-	applmgr
gml			7/22/2014 4:...	rw-rw-rw-	applmgr
gmo			7/22/2014 4:...	rw-rw-rw-	applmgr
gmp			7/22/2014 4:...	rw-rw-rw-	applmgr
gms			7/22/2014 4:...	rw-rw-rw-	applmgr
gr			7/22/2014 4:...	rw-rw-rw-	applmgr
hri			7/22/2014 4:...	rw-rw-rw-	applmgr
hxc			7/22/2014 4:...	rw-rw-rw-	applmgr
hxt			7/22/2014 4:...	rw-rw-rw-	applmgr
ia			7/22/2014 4:...	rw-rw-rw-	applmgr
ibc			7/22/2014 4:...	rw-rw-rw-	applmgr
ibe			7/22/2014 4:...	rw-rw-rw-	applmgr
ibp			7/22/2014 4:...	rw-rw-rw-	applmgr
ibu			7/22/2014 4:...	rw-rw-rw-	applmgr
ibw			7/22/2014 4:...	rw-rw-rw-	applmgr
iby			7/22/2014 4:...	rw-rw-rw-	applmgr
icx			7/22/2014 4:...	rw-rw-rw-	applmgr
ieb			7/22/2014 4:...	rw-rw-rw-	applmgr
iec			7/22/2014 4:...	rw-rw-rw-	applmgr

The `/oraDB` directory structure is shown as follows:

Name	Ext	Size	Changed	Rights	Owner
apps_calclip.dbf		2,097,1...	4/4/201...	rw-rw-rw-	applmgr
apps_calclip1.dbf		2,097,1...	4/4/201...	rw-rw-rw-	applmgr
apps_calclip2.dbf		524,296...	4/4/201...	rw-rw-rw-	applmgr
apps_calclip3.dbf		283,123...	4/4/201...	rw-rw-rw-	applmgr
APPS_OMO02.dbf		524,296...	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface.dbf		222,306...	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface1.dbf		1,056,768	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface10....		1,056,768	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface11....		316,678...	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface12....		2,097,1...	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface13....		1,056,768	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface14....		1,056,768	4/4/201...	rw-rw-rw-	applmgr
apps_ts_interface15....		1,056,768	4/4/201...	rw-rw-rw-	applmgr
apps ts interface16....		1,056,768	4/4/201...	rw-rw-rw-	applmgr

E-Business Suite - File System Application Tier

Left Window: /oraAS/oracle/VIS/apps/apps_st/appl/gl/12.0.0

Name	Ext	Size	Changed	Ric
..			7/22/2014 4:...	
admin			7/22/2014 4:...	
bin			7/22/2014 4:...	
forms			7/22/2014 4:...	
help			7/22/2014 4:...	
html			7/22/2014 4:...	
java			7/22/2014 4:...	
lib			7/22/2014 4:...	
log			7/22/2014 4:...	
mds			7/22/2014 4:...	
media			7/22/2014 4:...	
mesg			7/22/2014 4:...	
out			7/22/2014 4:...	
patch			7/22/2014 4:...	
reports			7/22/2014 4:...	
sql			7/22/2014 4:...	

Right Window: /oraAS/oracle/VIS/apps/apps_st/comn/java/classes

Name	Ext	Size	Changed
..			7/22/2014
abc			2/23/2019
COM			7/22/2014
com			7/22/2014
crysec			7/22/2014
EDU			7/22/2014
ewtttdg			7/22/2014
javax			7/22/2014
jndi			7/22/2014
junit			7/22/2014
meta-inf			7/22/2014
META-INF			7/22/2014
model			7/22/2014
netcharts			7/22/2014
netscape			7/22/2014
oracle			7/22/2014
org			7/22/2014
policies			7/22/2014
sample			7/22/2014
sun			7/22/2014
tdg			7/22/2014
tomsawyer			7/22/2014
unittest			7/22/2014
view			7/22/2014

Annotations:

- ShellScript/SQLLoader Files (points to bin)
- Forms fmb files (points to forms)
- Reports RDF (points to reports)
- SQL Scripts (points to sql)
- \$JAVA_TOP** (points to classes)
- OAF Class Files and BC4J XML Files (points to classes)