Application Express (APEX) Database and Web Server Certification Reference (Doc ID 1344948.1)

In this Document

APPLIES TO:

Oracle HTTP Server - Version 9.2.0.8 and later
Oracle REST Data Services - Version 1.1.0 and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
APEX Application Development - Version NA and later
Oracle Application Express (APEX) - Version 1.5 and later
Information in this document applies to any platform.

PURPOSE

Oracle Application Express requires two components:

- A database where the APEX database objects are installed.
- A web server with mod_plsql support, which is used to access the APEX objects in the database from a browser.

Each of these components has their own certification and support documents. The purpose of this document is to describe which versions of APEX are certified / supported with the various database and web server options. APEX as a product does not have and OS certification. For OS certifications, please review the relevant database or web server certifications. If the database / web server is certified on a particular platform, the APEX is supported on that platform.

> If you have certification questions on your Fusion Middleware products, please use our new [Middleware Certification Community](#). The Certification Community is easy to use!
>
> You can self-service by searching through our catalog of existing questions and answers or you can browse our product specific certification documentation listed in the Community. You can ask your Fusion Middleware certification question in the Community without the need to submit a Service Request. The Middleware Certification Community is staffed with Oracle Support Engineers who are able to provide you with a quick answer to any kind of certification questions.

SCOPE

An overview of web server and database certification for the Oracle Application Express product.

DETAILS

APEX Database Support

Minimum Database versions for APEX:

- HTML DB 1.5 through APEX 3.2 are supported on Oracle Database 9.2.0.3 and higher.
- Beginning with APEX 4.0, the minimum database version is 10.2.0.3.
- Beginning with APEX 5.0, the minimum database version is 11.1.0.7.
- Beginning with APEX 5.1, the minimum database version is 11.2.0.4.
- For APEX 18.1, 18.2, 19.1, 19.2, 20.1, 20.2 the minimum database version is 11.2.0.4.
- For APEX Versions 21.1,21.2, 22.1,22.2 the minimum database version is 12.1.0.2
- For APEX 23.1, the minimum database version is 19c
- For APEX 24.1, the minimum database version is 19c
- For APEX 24.2, the minimum database version is 19c

APEX version supplied with the Database:

- APEX version supplied with Database 11gR1 is APEX 3.0. This version of APEX comes installed by default in the 11.1 database.
- APEX version supplied with Database Database 11gR2 is APEX 3.2.1. This version of APEX comes installed by default in the 11.2 database.
- APEX version supplied with Database Database 12.1.0.1 is APEX 4.2.0. This version of APEX comes installed by default in the 12.1.0.1c database.
  APEX 4.2.3 is the first patchset that can be used to patch a multitenant database. All 4.2 patches can be used to patch a standard (non-multitenant) configuration.
- APEX version supplied with Database 12.1.0.2 is APEX 4.2.5. This version of APEX comes installed by default in the 12.1.0.2 database.
- APEX version supplied with Database 12.2.0.1 is APEX 5.0.4. APEX is not installed by default.
- APEX version supplied with Database 18.0.0.0 is APEX 5.1.3. APEX is not installed by default.
- APEX version supplied with Database 19.0.0.0 is APEX 18.2. APEX is not installed by default.
- Beginning with Database 21c, APEX is no longer included with the database distribution. To learn more, see:

  https://blogs.oracle.com/apex/post/on-premises-apex-installations-in-oracle-database-21c-and-beyond
- The minimum Oracle APEX version compatible with Oracle Database 23 is APEX 24.2,

In general, support for new releases of APEX ends after 1.5 year (23.1 and previous version ended Dec 2024) from the date of release. See the Oracle Lifetime Support Policy for Technology Products Guide for more information on support dates for the database and Application Express products.

Information regarding database installation requirements and browser support can be found in the Oracle Application Express installation guides on Oracle Technology Network:

- Current Release
- Prior Releases

APEX Web Server Support

Oracle REST Data Services (ORDS) / APEX Listener

The Oracle REST Data Services (ORDS)/ APEX Listener is a J2EE based supplied with the Oracle Application Server and Fusion Middleware installations. It is supported with:

ORDS 23.3 or higher is required for APEX 24.2 or higher
In APEX 24 The use of Quick SQL requires Oracle REST Data Services (ORDS) 23.3 or later.

ORDS 20.x or higher is required for APEX 22.1 or higher
ORDS 19.x or higher is required for APEX 20.1, 20.2. 21.1 (however ORDS 20.X or higher is recommended)
Support for Glassfish has been deprecated with ORDS 17.4. Glassfish is no longer supported as a web server starting with ORDS version 19.1.

The 17.4 + of Oracle REST Data Services (ORDS) is supported with the following web servers: Weblogic 12.1.3 +, Tomcat 8.5 +, Glassfish 4.1.2 as the front end web server.
Requires JDK 1.8 or above. JDK 1.9 is supported with this version of ORDS standalone but requires additional parameters in the command line syntax. See the Release Notes for details

APEX-based REST Services were DE supported in Oracle APEX release 22.1. Oracle REST Data Services (ORDS) release 21.4.2 now ships with migration scripts that enable you to upgrade any remaining APEX-based REST Services to ORDS-based Services. To learn more, see "Migration of Oracle APEX Restful Service Modules" in Oracle REST Data Services Release Notes.

Note that support for Glassfish Open Source is on the Glassfish Open Source Forums.
Support for Tomcat is on the Tomcat forums: http://tomcat.apache.org/lists.html

Refer to the Oracle Lifetime Support Policy for Oracle Fusion Middleware Guide for OC4J, WebLogic and Glassfish support dates. Additional information regarding ORDS /APEX Listener can be found here.

Oracle HTTP Server / Oracle Application Server / Fusion Middleware

The Oracle HTTP Server supplied with the database or Oracle Application Server / Fusion Middleware installations can be used to meet the HTTP Server requirement. The version of the HTTP Server chosen must support mod_plsql. Support for the Oracle HTTP Server based on Apache is as follows:

- The Oracle Apache HTTP Server associated with the 9.2 database is supported for HTML DB 1.5 through APEX 3.2, due to the 9.2 database requirement. Earlier versions of the Oracle HTTP Server, such as the 1.0.2.2.2 associated with Oracle Applications / E-Business Suite 11.5 are built on the 8.1.7 client components and are missing features database features required by the APEX product.
- The Oracle Apache HTTP Server associated with the 10.1 database is supported for all APEX versions through 3.2.1. The Oracle Apache HTTP Server associated with the 10.2 database is supported for all APEX versions.
- The HTTP Server associated with the Oracle Application Server 10.1.2 through 10.1.3 installation is supported with all versions of Application Express. Be aware that not all versions of the OAS product include mod_plsql support.
- The HTTP Server associated with all Fusion Middleware installations supports APEX 3.0 versions and higher. The Fusion Middleware WebTier installation is provided for use with the 11.1, 11.2 and 12c databases.
  The last Oracle HTTP Server (OHS) version supported with APEX is 12.1.3. This is the last version of the Oracle HTTP Server to include mod_plsql.

  The free replacement for OHS / mod_plsql is Weblogic with ORDS. As long as WLS is installed on the database server, there is no additional licensing required. The Oracle® Fusion Middleware Licensing Information User Manual states the following:

  A license to WebLogic Management Framework includes a restricted-use license to Oracle WebLogic Server Standard Edition. Oracle WebLogic Server Standard Edition may be used solely for hosting the Java servlet that is used by Oracle REST Data Services. The Java servlet is the functional replacement for Oracle HTTP Server mod_plsql.

  See Note 1576588.1 - Oracle Web Tier - Statement of Direction: for more information regarding OHS and mod_plsql support.

  > NOTE: APEX 20.1 is the last version supported with OHS / Mod_plsql. Oracle REST Data Services (ORDS) is the recommended web server.

See the Oracle Lifetime Support Policy for Oracle Fusion Middleware Guide for the HTTP Server support dates for the Oracle Application Server and Fusion Middleware products. See Note 260449.1 *Everything You Wanted to Know About the Apache-Based OHS Version*: for additional information regarding the Oracle HTTP Server options.

Embedded PL/SQL Gateway

The Embedded PL/SQL Gateway (EPG) runs the Oracle XML DB HTTP server in the Oracle database and includes the core features of mod_plsql. Support of the EPG for APEX is as follows:

- The Embedded PL/SQL Gateway (EPG) is supported for use with APEX starting with the 11.1 database.

- The EPG is supported for use with APEX versions 3.0.1 - 20.1.

> NOTE: The XDB HTTP Server / Embedded PL/SQL Gateway is not supported for APEX in production.
> It has been deprecated as of APEX 20.1 and will be desupported in APEX 20.2 and above.
> Oracle REST Data Services (ORDS) is the currently supported PL/SQL Gateway option for use with APEX.

Platform Support

There are no platform certifications done for APEX. For verifying the platform certification:

- Determine if the database is certified on the platform.
- Determine if the web server is certified on the platform.
- ORDS certification is based on the JDK. Only the Oracle JDK is supported.
- If deploying ORDS on one of the supported web servers, insure that the JDK for the web server is supported.

If the database is supported and the web server are supported on a platform, then APEX is supported on that platform.

REFERENCES

http://www.oracle.com/technetwork/developer-tools/apex/application-express/apex-094287.html
http://www.oracle.com/technetwork/developer-tools/rest-data-services/downloads/ords-relnotes-174-4108804.html
NOTE:260449.1 - Everything You Wanted to Know About the Apache-Based OHS Version
http://www.oracle.com/us/products/middleware/application-server/oracle-glassfish-server-faq-071872.pdf
https://communities.oracle.com/portal/server.pt/community/middleware_certification/571
Didn't find what you are looking for?