



# **BEA WebLogic Server<sup>R</sup> Lightweight Server Runtime**

Version: 10.3 Tech Preview

Document Date: October 2007

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## Introduction to WebLogic Server Lightweight Runtime

BEA has adopted internal service oriented architecture for products. BEA refers to this initiative as microService Architecture™ or mSA. See <http://www.bea.com/framework.jsp?CNT=msa.jsp&FP=/content/>. WebLogic Server 10.0 included the first steps towards achieving the mSA vision. In WebLogic Server 10.3, additional progress is achieved by enabling some services within WebLogic Server to be turned off. The benefit of excluding some services is reduced memory footprint and reduced startup time.

## Determining Which Services to Start

Within WebLogic Server, services are enabled according to the version of WebLogic Server that you want to run: WebLogic Server or WebLogic Express. For WebLogic Server, all services are started including EJB, JMS, Connector, Clustering, Deployment, Management, and Diagnostics. For WebLogic Express, the EJB, JCA, and JMS services are disabled.

You determine the type of server you want to run at startup time, and you start the server type by entering a start-up command line option. The default version is `wls` and requires no special start-up option. To start a WebLogic Express server or a server without EJB, Connector, and JMS services, you use the following command line option –

`DserverType="wlx".`

**Note:** If your applications do not use EJB, Connector, or JMS, you can start a `wlx` server to take advantage of the startup and memory benefits even if you have a WebLogic Server license.

## Limitations

Within WebLogic Server, there are several services that internally use the EJB service. If you start a `wlx` server, some the following features will not be available:

- Management EJBs – These EJBs are used to support JSR-77. If the EJB service is disabled, JSR-77 support is unavailable, too. However, all other management APIs are available.
- Remote Deployer from WebLogic Server 9.0 and 9.1– The Remote Deployer EJB is only used by the `weblogic.Deployer` tool in the WLS 9.0 and 9.1 releases when the `-remote` option is specified. You can still use the `-remote` option from `weblogic.Deployer` in 9.2 or later releases.

If you need to use these features, start a `wls` server (the default) instead of a `wlx` server.

## License Impact on Services

Along with manual determination of service startup, WebLogic Server also considers licensing when starting services. In this release, if you use a WebLogic Express license to run a server, the EJB, Connector, and JMS services are not started. Therefore, the limitations described in “Limitations” apply to WebLogic Express as well as servers explicitly started as a `wlx` server.