

## INTEROPERABILITY AND ORACLE SOLARIS 10

INTEROPERABILITY FROM THE DESKTOP TO THE DATA CENTER AND ACROSS A RANGE OF SYSTEMS, SOFTWARE, AND TECHNOLOGIES

### KEY FEATURES

- Support for open standards such as UDDI, SOAP, WSDL, and XML
- Source and binary compatibility for Linux applications and interoperability with Microsoft Windows
- IPPerl, PHP, and other popular scripting languages
- Apache, Samba, Sendmail, IP Filter, BIND, and other open source software
- Support for Java-based application development and deployment with Java 2 Platform, Enterprise Edition and Standard Edition
- Source-level compatibility that allows Oracle Solaris and Linux applications to compile and run on both platforms

*Oracle Solaris 10 meets the challenges of complex, heterogeneous computing environments with an array of key features, including interoperability with both Linux- and Microsoft Windows-based systems and support for a wide range of open standards and open source applications.*

### Investment Protection in Heterogeneous Environments

Modern businesses rely on large, geographically dispersed computing infrastructures that often incorporate hundreds of heterogeneous hardware and software platforms from a wide variety of vendors. If these environments are to remain manageable, organizations must ensure that these diverse products function well together. At the same time, as organizations update their computing environments to improve cost-effectiveness and total cost of ownership, they must protect major investments in servers, operating systems (OSs), and applications and avoid dependence on specific hardware or software vendors.

### Interoperability with Java Technology

By freeing application design from the limitations of a specific platform, the Java technology revolution has changed the way people think about interoperability. Because it runs on every major hardware platform and is supported by virtually every software vendor, Java technology enables business applications to be developed and operated regardless of the OSs being used. Oracle Solaris 10 provides a rich set of features for Java technology-based development and deployment, including two types of Java 2 Platform, Enterprise Edition (J2EE platform)-compliant application servers—Oracle GlassFish Server and the open source Tomcat server.

### Interoperability with Microsoft Windows

Oracle Solaris 10 has key features for interoperability with Microsoft Windows. Samba, which is integrated into Oracle Solaris 10, allows Oracle clients and servers to access file and print services in a Microsoft Windows network. The Oracle Open Office suite provides interoperability with Microsoft Office file formats. Users can even run Microsoft Windows on a Sun Oracle x64 system running Oracle Solaris using Oracle VM VirtualBox. Oracle Solaris also supports open standards and interfaces that make it easier to interoperate with Microsoft Windows systems, including integration with Microsoft Active Directory environments via Oracle Solaris features such as Kerberos protocol support. Separately, LDAP authentication can also be used to access a Microsoft Active Directory server from an Oracle Solaris client.

### Interoperability with Linux

Sharing the same roots as the Linux OS, Oracle Solaris 10 functions efficiently with that OS in nearly any environment. As Linux interfaces continue to evolve, Oracle Solaris maintains source-level compatibility, helping to ensure that applications developed for either Oracle Solaris or Linux software will compile and run on both platforms. This includes the addition in Oracle Solaris 10 of libraries such as GLib, zlib, and Tcl/Tk; scripting; shell utilities such as Perl, Python, zsh, tcsh, and bash; and common user and administrative interfaces such as GNOME, KDE, and Webmin. In addition, an update to Oracle Solaris 10, the Oracle Solaris Linux application environment will allow users on x86 systems to run existing, unmodified Linux binaries on the Oracle Solaris platform. This new level of interoperability will give users access to the applications they choose while enabling them to reap the benefits of Oracle Solaris 10 functionality.

### Common Desktop and Infrastructure Software

In addition to providing interoperability for Java-based development, Oracle provides integrated applications and environments that run across multiple OSs. These include the Java Desktop System and the Java Enterprise System, both of which are available on Oracle Solaris and Linux platforms. Oracle Solaris 10 now includes the Java Desktop System—an integrated, full-featured client environment that includes the Mozilla Web browser and the Oracle Open Office suite—providing a unified desktop interface across Oracle Solaris and Linux platforms. Components of the Java Enterprise System are also included with Oracle Solaris 10, introducing an end-to-end software system that can support all of your infrastructure service needs on both Oracle Solaris and Linux platforms.

### Common Free and Open Source Software and Tools

In addition to contributing software to the open source community, Oracle helps you leverage the power of free and open source software (F/OSS) by providing it with Oracle Solaris 10. You don't have to download, compile, test, and integrate the tools you need. Oracle Solaris 10 includes 187 software products from the F/OSS community, also popular on Linux platforms, including the following:

- Apache, Tomcat, and multiple Zebra routing protocols for network and Web services
- Bison, GCC, Perl, and Python tools for software development
- IP Filter, TCP Wrappers, and Secure Shell utilities for security
- GNOME, Mozilla, and Evolution software for desktop usability

These free software components are either integrated directly into Oracle Solaris 10 distribution or are included on the Oracle Solaris software companion CD. In addition, F/OSS tools integrated into Oracle Solaris 10 include the standard GNU development utilities. Library support includes UNIX standard functions as well as the most popular F/OSS libraries such as Glib, GTK, JPEG, PNG, Tcl/Tk, TIFF, XML, and zlib, which can be used across Oracle Solaris and Linux platforms.

## Conclusion

For businesses that rely on heterogeneous environments, Oracle Solaris 10 empowers users with new technologies and tools that let them take advantage of the innovation, security, and performance of Oracle Solaris 10 software while protecting existing investments in applications, hardware, and training.

## Contact Us

For more information about interoperability and Oracle Solaris 10, visit [oracle.com/solaris](http://oracle.com/solaris) or call +1.800.ORACLE1 to speak to an Oracle representative.



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