



## UNIXWARE® RELEASE 7.1.4



BRINGING POWER, VALUE,  
STABILITY, AND RELIABILITY  
TO YOUR BUSINESS

**UnixWare 7.1.4** is the mature and proven operating system to support your most critical line of business applications, yet is affordably priced to host all compute needs. It supports the newest industry standard hardware platforms and peripherals and contains even more of the high performance, scalability and reliability features that you have come to expect from UnixWare. In addition to support for the latest hardware, there is a range of new features that increase security, provide more application options and flexibility and enhance the usability of UnixWare 7.1.4. As an added bonus, the most popular editions have been reconfigured and a new, low entry point edition has been introduced to provide even more value to help grow your business.

**UnixWare 7.1.4** is the right choice for companies who place a high value on the scalability, reliability and security inherent in UNIX technology based systems and need the more affordable option of commodity servers.

SCALABLE RELIABLE SECURE



UNIXWARE RELEASE 7.1.4

*The UnixWare 7.1.4 Small Business Edition (SBE) is the new edition for customers that need a full-featured, affordable server platform for supporting edge of network services, as a file and print server or to run a small business environment.*





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## WHAT'S NEW IN UNIXWARE 7.1.4?

### Introducing The UnixWare 7.1.4 Small Business Edition

The UnixWare 7.1.4 Small Business Edition (SBE) is the new edition for customers that need a full-featured, low cost server platform for supporting edge of network services or as a file and print server. It is configured and priced to meet a wide range of needs including support for a small business or for low budget pilot projects that need to quickly scale up to production if the pilot is successful. The Small Business Edition contains all of the same performance, reliability, and scalability features that you have come to expect from UnixWare, and is packaged with a single user, a single processor and 1 GB of memory. Like all the UnixWare editions, additional users, memory and CPUs can be added to the SBE, or growing businesses may find it more economical to upgrade to the 7.1.4 Business Edition.

### Additional Value in the Most Popular Editions

The default configurations of the most popular editions of UnixWare have been redefined to provide even greater value to grow your business. UnixWare 7.1.4 Editions and the corresponding default configurations are shown in the following table. *Note that changes from the previous versions of UnixWare 7 are in bold.*

NEW EDITION & NEW DEFAULT CONFIGURATIONS						
	Small Bus.	Base	Business	Departmental	Enterprise	Data Center
USERS	<b>1</b>	1	<b>10</b>	25	50	150
CPUs	<b>1</b>	1	<b>4</b>	4	<b>6</b>	8
MEMORY	<b>1GB</b>	<b>2GB</b>	4GB	<b>8GB</b>	16GB	32GB

New installations of UnixWare 7.1.4 as well as upgrades immediately benefit from the additional value in UnixWare 7.1.4.

### Enhanced Security Services

The enhanced security features ensure secure transmission of information over the internet, and protect your internal network from outside intrusion. IPSEC has been added to provide VPN services and OpenSSL and OpenSSH are updated for secure transmission over the internet. In addition, security enhancements have been included in Sendmail and FTP.

Pluggable Authentication Module (PAM) capability will be added in Maintenance Pack 1 to enable system administrators to define custom authentication procedures for various system services.

### More Choices for Applications

UnixWare 7.1.4 application support has been enhanced with updated versions of Java and perl and the popular Mozilla browser has been added to the media kit to replace the old browser. In addition, the

popular Open Source relational data bases PostgreSQL and MySQL are available in the media kit as fully supported options.

SCOx has been updated to include Tomcat which provides JAVA application server capability.

The Web Services Substrate (WSS) builds on the SCOx infrastructure and provides the foundation for creating modern Web Service-based applications and Service-Oriented Architectures (SOA) on top of existing console-based applications and relational databases. The WSS helps protect legacy application software investments, and provides the tools to transform those applications into modern Web Services components.

### Installation Improvements

A fresh installation of UnixWare 7.1.4 is more efficient than previous versions of UnixWare. During installation, the system is automatically tuned for the number of users and CPUs. The UnixWare 7.1.4 boot process can be done above 8GB, and using PXE boot, installation can be done over the network.

A UnixWare 7.1.1, 7.1.2 (OU8), or 7.1.3 system can be upgraded to UnixWare 7.1.4 in a single step, (though the upgrade fee varies depending on the release that is being upgraded from.)



### Support for New Hardware

SCO works closely with its OEM partners to ensure that its operating systems products track the direction the major OEM suppliers. Specifically, UnixWare 7.1.4:

- > Supports USB 2.0 devices for a wide range of devices, including printers, keyboards, mice, disk drives, bootable devices and UPC scanners
- > Harnesses the performance of Intel® Xeon™ Hyperthreading architecture available for Pentium 4 processors, including basic ACPI support. This enables SMP-like performance on single CPU systems
- > Supports IDE drives with ATA-6 and support for >128GB for storing very large amounts of data on low cost drives. IDE drives are also a lower cost alternative to SCSI drives for deploying RAID solutions
- > Contains new and updated graphics, network and HBA drivers, including Adaptec, Intel and LSI Logic and Qlogic HBA drivers
- > Enhanced support for PCI serial devices
- > Has full support for IBM x-440 platforms.
- > Audio support for i 845 audio chipset
- > Supports AMD Opteron in 32-bit mode and Athlon

UNIXWARE 7.1.4 EDITION SUMMARY					
SMALL BUSINESS	BASE	BUSINESS	DEPARTMENTAL	ENTERPRISE	DATA CENTER
1 User 1 CPU 1GB Memory	1 User 1 CPU 3GB Mem.	10 Users 1 CPU 4GB Memory	25 Users 4 CPUs 8GB Memory	50 Users 8 CPUs 16GB Memory Online Data Manager	150 Users, 8 CPUs 32GB Memory Online Data Manager Event Logging w/ Relational Database
USER INTERFACE: CDE, PANORAMA, KDE, CHARACTER					
OPENSERKER KERNEL PERSONALITY (OKP), SCO MERGE					
WINDOWS FILE AND PRINT, PROXY SERVER, FIREWALL & SECURITY SERVICES, RELATIONAL DATABASE, VPN SOLUTION					
DEVELOPMENT TOOLS: C, C++, JAVA 2, OPEN SOURCE TOOLKIT, GRAPHICAL DEBUGGERS, ENHANCED MATH LIBRARY, WEB SERVICES SUBSTRATE					
ADMINISTRATIVE FRAMEWORK					
TCP/IP, PPP, IP Filtering		Sendmail System, POP, IMAP4		Integrated HTTP Server, Web Browser	
Scalable SVRS Kernel with high availability, large memory and large filesystems					

### Enhanced Usability Features

A number of new features have been added to UnixWare 7.1.4 to enhance the user experience and provide more user options:

- > CUPS has been added as an alternative to System V LP
- > Gimp-print 4.2.5, fomatic 3.0.0-01, and ghostscript 7.05.6 and hpijs 1.5 for CUPS, have been added
- > A UnixWare 7.1.4 emergency recovery disk can be made on a CD which provides more flexibility in environments where floppies no longer exist
- > Users can set a default desktop to appear at each login
- > Product documentation can be printed or viewed online in html format
- > The printer queue has been enlarged to accommodate 999 print jobs for each printer or class of printers
- > Support for Network Time Protocol v4 has been added

### OPENSERKER KERNEL PERSONALITY

UnixWare 7.1.4 runs OpenServer applications (including Xenix applications) using the OpenServer Kernel Personality (OKP) function to provide customers with powerful, flexible and cost effective deployment options. OpenServer Kernel Personality for SCO UnixWare enables installation and native execution of SCO OpenServer applications on UnixWare. OKP combines the UnixWare Application Compatibility Package (ACP) with a full OpenServer environment to provide the highest level of compatibility with OpenServer applications (including Xenix compatibility).

OKP is an excellent tool for providing UnixWare levels of scalability and reliability to OpenServer applications without undertaking costly migration projects, or for consolidating several UW and OSR5 workloads on fewer UnixWare servers. Customers running multiple SCO servers can reliably choose UnixWare 7.1.4 as the platform for consolidating workloads to reduce operating expenses for compute environments that require a secure, mature, and stable platform to support business critical applications.

OKP lite is included in the media kit at no additional charge and is enabled by copying an existing OSR5 image and applications onto the UnixWare System. OKP full is for customers who need a fresh install of OpenServer 5.0.7 on UnixWare and is available for a nominal charge.

### Optional Bundled Support Service

Beginning with UnixWare 7.1.4, an optional support bundle is available for customers who need affordable basic break/fix support. The service is flexible and can be tailored based on the customer's business requirements and the service can be upgraded to one of the higher end offerings from SCO's award winning Support Services.

SCO Global Services provides traditional management, custom software engineering, education and

### The support bundle includes:

- > Traditional break-fix support for 6 months for the operating system on the licensed server
- > Four business hour response (phone, e-mail, fax or Web, with option to uplift)
- > Two authorized technical contacts

### The following options are available as add-ons to the basic bundled service:

- > 24 x 7 emergency service
- > One business hour response time
- > Layered product add-on
- > Upgrade to TEAM, SoftTech or SoftTech Plus

The bundled support is available for selected UnixWare Editions as well as those Editions with SCO Update

### OPTIONAL SERVICES CHANGES

The optional Reliant™ HA failover cluster module has been enhanced with better CAB halt diagnostics and enabled for single heartbeat system startup for customers who need to start up a system before a cluster is established. This upgraded version of ReliantHA (version 1.1.4) is designed for both new installations and updating versions 1.1.1 through 1.1.3 of ReliantHA. Merge has been updated to version 5.3.26c.

### UNIXWARE 7.1.4 PRODUCT FAMILY DESCRIPTION

UnixWare 7.1.4 is the most advanced deployment platform for industry standard Intel and AMD processor systems. UnixWare 7.1.4 is the trusted foundation for solutions where proven scalability, reliability, security, stability and affordability are critical.

### UnixWare 7.1.4 consists of a comprehensive family of six (6) preconfigured editions, optional products and Add-On Licenses

**The UnixWare 7.1.4 Small Business Edition (SBE)** is the new edition for customers that need a full featured, low cost server platform for edge of network services or to run a small business

**The UnixWare 7.1.4 Base Edition** provides a solid foundation for building dedicated or specialized server environments, such as telecommunications equipment and other embedded or replicated systems. The Base Edition default configuration is similar to the Small Business Edition but the cost of adding additional users to the Base Edition is more economical than adding users to the Small Business Edition. The Base Edition is the right choice for customers who have initial limited user capacity requirements which are expected to grow quickly as the business matures.

**The UnixWare 7.1.4 Business Edition** has been packaged with additional CPUs and users in the standard, out of the box configuration. Instead of getting 5 users and 1 CPU, the new installation comes with 10 users and 4 CPUs. Customers who upgrade from a prior version of the Business Edition will get the additional 5 users and additional CPUs enabled on their systems. The Business Edition is targeted for replicated sites or workgroups requiring reliable access to diverse applications, and the ability to expand system capability as the organization grows.

and Web-delivered services worldwide, including product support, consulting, project

Web-delivered software management. Visit [www.SCO.com/services](http://www.SCO.com/services) for more information.

**The UnixWare 7.1.4 Departmental Edition** is targeted for departmental servers or replicated sites in medium or large organizations and is designed to run applications and reliably share business critical information with a wide range of client devices. The Departmental Edition default configuration has been increased from 2 CPUs and 4GB of memory to 4 CPUs and 8GB of memory, which provides additional capacity to simultaneously run multiple applications.

**The UnixWare 7.1.4 Enterprise Edition** provides a solid foundation for medium to high end database servers or application servers. The scalability and performance capabilities of the Enterprise Edition make it an excellent application server to support on-line transaction processing or decision support applications where response time and reliability are critical success factors.

The Enterprise Edition is licensed for 50 users, 16 GB of memory and the number of CPUs has been increased from 4 to 6.

**The UnixWare 7.1.4 Data Center Edition** is unmatched in its ability to deliver the total performance and capabilities of proprietary, high cost, UNIX systems but because it runs on cost efficient Intel and AMD processor-based servers, it is a more affordable and cost effective solution.

The Data Center Edition is built to meet the performance and 24 x 7 x 365 availability demands of business-critical application environments. The On-Line Data Management feature provides real-time management of data on redundant disks and file systems. It ensures that the information critical to your business is dependable, accessible and accurate. The Reliant@HA Clustering optional add-on product takes this already high availability and scalability to a whole new level. With support for multiple levels of redundancy and support for servers with huge disk and memory capacity, the Data Center Edition brings data center power with significant cost savings over equivalent proprietary RISC based UNIX server offerings. The Data Center Edition is licensed for 8 CPUs, 150 users, 32 GB of memory and RAID support with the Online Data Manager, and is scalable from there.

#### UNIXWARE 7.1.4 OPTIONAL PRODUCTS AND ADD-ON LICENSES

- > Reliant@HA 1.1.4 Clusters
- > Online Data Manager 3.2
- > Disk Mirroring 3.2
- > UnixWare and OpenServer Development Kit (UDK) 7.1.4
- > NetTraverse Merge™ 5.3.26c
- > Advanced File and Print Server 4.0.2a
- > Additional User Licenses - *Add users in increments of 10, 25, 100 and 500 users plus unlimited User License*
- > Additional Processor Licenses
- > Additional Memory Upgrades - *Expand base supported main memory to 4GB, 16GB, 32GB up to Maximum of 64GB*

#### UNIXWARE AND OPENSERVER DEVELOPMENT KIT

The new UnixWare and OpenServer Development Kit (UDK) contains C and C++ compilers and the graphical debug tool that enables the rapid development of applications for UnixWare Release 7.1.4. Key features of the new development kit include:

- > Extensive Java 2 development tools; virtually complete conformance to the ISO/IEC 14882:1998 C++ Standard and the ISO/IEC 9899:1999 C Standard; C++ standard library.
- > Enhanced math library; enhanced graphical debugger; new tool to diagnose dynamic memory allocation errors on UnixWare 7.1.4. This kit can be used to develop applications that can also be deployed on UnixWare 7.1.3, UnixWare 7.1.2 (OU8) and UnixWare 7.1.1.
- > The Compatibility Modules for SCO OpenServer™ continue to be supported with this development kit. The new kit can also be used to create binaries for SCO OpenServer Release 5.0.6 and Release 5.0.7. Details on using this feature are provided in the release notes.

The new UDK may be installed on either a UnixWare 7.1.4, UnixWare 7.1.3, UnixWare 7.1.2, (OU8) UnixWare 7.1.1, OpenServer 5.0.6 or OpenServer 5.0.7 system as a free upgrade if the UnixWare and OpenServer Development Kit has been licensed on the system, otherwise a license key for the UDK will be required.

The new kit includes the Java™ 2 Standard Edition Version 1.4.2 SDK. This toolkit is a powerful development environment that is portable, object oriented, platform independent, and especially well suited for developing Internet-enabled applications.

The new Java 2 Standard Edition Version 1.4.2 SDK which includes the Java compiler, interpreter, classes, runtime environment and Netscape Java plug-in module.

Also included is Release 2.0.4 of the supported Open Source Tool Kit. This tool kit includes the GNU Tool Chain that can be used to develop, enhance and compile UNIX programs for use on UnixWare 7.1.4, UnixWare 7.1.3, UnixWare 7.1.2 (OU8), and UnixWare 7.1.1.



## UNIXWARE 7 TECHNICAL SPECIFICATIONS

LEGEND: 0=Optional services (add-on); ✓=Included in edition; +=Configuration upgrade option; \*\*=New in Release 7.1.4; \*\*=Changed/Upgraded in Release 7.1.4

<b>EDITION (OPERATING SYSTEM)</b>	<b>SMALL BUSINESS</b>	<b>BASE</b>	<b>BUSINESS</b>	<b>DEPARTMENTAL</b>	<b>ENTERPRISE</b>	<b>DATA CENTER</b>
SVRS SMP Kernel**	✓	✓	✓	✓	✓	✓
User Licenses	1	1	10	25	50	150
5 Additional User License Upgrades	+					
10/25/100/500 and unlimited additional user license upgrade						
Processors	1	+	+	+	+	+
Processor Upgrades: 1 CPU (cumulative)	+	1	4	4	6	8
Main Memory	1GB	2GB	4GB	8GB	16GB	32GB
Main Memory Upgrades: 4GB/16GB/32GB/64GB	+	+	+	+	+	+
General Purpose Memory Support up to 16GB	✓	✓	✓	✓	✓	✓
OpenServer Kernel Personality (Lite)*	✓	✓	✓	✓	✓	✓
OpenServer Kernel Personality (Full)*	0	0	0	0	0	0
Hot Add Memory	✓	✓	✓	✓	✓	✓
Hot Swap CPU	✓	✓	✓	✓	✓	✓
Hot Plug PCI-X	✓	✓	✓	✓	✓	✓
Boot Partitions above 8GB*	✓	✓	✓	✓	✓	✓

### HARDWARE SUPPORT

USB 1.1 and 2.0 printer, mice, keyboard, bootable devices, drives, UPC scanners, CDs	✓	✓	✓	✓	✓	✓
CD/Tools 2.01a27 with DVD support*	✓	✓	✓	✓	✓	✓
Enhanced PCI Serial Support*	✓	✓	✓	✓	✓	✓
IDE Driver with ATA-6 Support for >128GB**	✓	✓	✓	✓	✓	✓
Audio support for i845 audio chipset**	✓	✓	✓	✓	✓	✓
ACPI Hyperthreading Support for Intel Xeon*	✓	✓	✓	✓	✓	✓
HBA Loading from 3rd Party CDs*	✓	✓	✓	✓	✓	✓

### APPLICATIONS OPTIONS AND SUPPORT

Java 1.4.2 SDK and Runtime Environment**	✓	✓	✓	✓	✓	✓
Native Mozilla 1.2.1 Browser*	✓	✓	✓	✓	✓	✓
Samba 3.0**	✓	✓	✓	✓	✓	✓
PostgreSQL 7.4.2*	✓	✓	✓	✓	✓	✓
Apache 1.3.29 Web Server**	✓	✓	✓	✓	✓	✓
Perl 5.8.3**	✓	✓	✓	✓	✓	✓
PHP 4.3.5**	✓	✓	✓	✓	✓	✓
CLUPS* 1.1.19**, Gimp-print 4.2.5 and hpjis 1.5 for CLUPS*	✓	✓	✓	✓	✓	✓
Squid Proxy Server 2.4 STABLE7**	✓	✓	✓	✓	✓	✓

### WEB SERVICES

gSOAP Apache AXIS SOAP pearsop	✓	✓	✓	✓	✓	✓
Tomcat 4.1.30	✓	✓	✓	✓	✓	✓
erpat/libxml/Xerces - J xml parsers	✓	✓	✓	✓	✓	✓

### NETWORKING, MAIL AND SECURITY

DHCP Server, DHCP Client, SNMP (MIB II)	✓	✓	✓	✓	✓	✓
IPSEC and NSS Support*	✓	✓	✓	✓	✓	✓
OpenSSL 0.9.7c, OpenSSH 3.7.1p2 and OpenSLP 1.0.6a **	✓	✓	✓	✓	✓	✓
NTPV4.1.1**	✓	✓	✓	✓	✓	✓
jvax.comm 2.0*	✓	✓	✓	✓	✓	✓
Sendmail 8.12.9** plus security patches (IMAP4, POP3, SMTR, MIME)	✓	✓	✓	✓	✓	✓

### RAS SERVICES

High-performance, multi-threaded journaling file systems	✓	✓	✓	✓	✓	✓
Enhanced PPP Scalability**	✓	✓	✓	✓	✓	✓
UnixWare 7.1.4 Disk Spanning	✓	✓	✓	✓	✓	✓
UnixWare 7.1.4 Disk Mirroring	0	0	0	0	0	0
Online storage management with RAID - UnixWare 7.1.4 Online Data Manager	0	0	0	0	0	0
ReliantSHA 1.1.4 for UnixWare 7.1.4 High Availability Clustering**	0	0	0	0	0	0

### EASE-OF-USE AND GRAPHICS

Media-less network installation**	✓	✓	✓	✓	✓	✓
Printable Documentation*	✓	✓	✓	✓	✓	✓
Increased Printing Scalability up to 999 print jobs*	✓	✓	✓	✓	✓	✓
Improved SCD admin Storage Management Administration**	✓	✓	✓	✓	✓	✓
User Defined File Systems during installation*	✓	✓	✓	✓	✓	✓
Advanced Graphics Adapters**	✓	✓	✓	✓	✓	✓
Optional Support Service (add-on)	0	0	0	0	0	0
Enhanced DNS Manager**	✓	✓	✓	✓	✓	✓
Auto Tuning for Users and CPUs*	✓	✓	✓	✓	✓	✓
Emergency Recovery CD Support*	✓	✓	✓	✓	✓	✓

### SYSTEM REQUIREMENTS

Single Processor, Intel Pentium or AMD (including Opteron in 32-bit mode)	✓	✓	✓	✓	✓	✓
Memory (without/with OKP) 64/128MB	✓	✓	✓	✓	✓	✓
Disk Space without/with OKP 2/4GB	✓	✓	✓	✓	✓	✓
Graphics (Recommended Minimum 1028x768 VGA, 1280x1024 for Merge)	✓	✓	✓	✓	✓	✓

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