

SCO UnixWare®



UnixWare 7.1.3 is the successor release of Open UNIX® 8 and marks the return of the UnixWare brand name as the premier UNIX Operating System for Intel® Architecture and AMD processor servers. While the name of the release after UnixWare 7.1.1 was changed to Open UNIX 8 it was really UnixWare 7.1.2 inside.

Beginning with UnixWare 7.1.3, SCO Update Service is available for UnixWare. This innovative service provides electronic notification and delivery of operating system changes, gives customers control of the upgrade process and helps customers accurately budget for the cost of system upgrades. SCO Update Service simplifies and streamlines the process of deploying new technology and keeping deployed systems up to date.

UnixWare 7.1.3 is the right choice for companies who place a high value on the scalability, reliability and security inherent in UNIX technology based systems. And because SCO is a business solutions company, you can be assured of timely feature upgrades that track technology advances, world class customer support and professional services options.



Release 7.1.3



UnixWare[®]



UnixWare is the most scalable, reliable, high performing UNIX system on Intel Architecture and AMD processor servers. Now, UnixWare 7.1.3 adds the distinction of being "the preferred platform for server consolidation projects" to its already impressive list of attributes. That's because

UnixWare 7.1.3 can host binary applications, written for UnixWare, Linux, OpenServer and Windows, all running on the same server.

But the advantages of being able to run multiple applications on a single operating system extend beyond a server consolidation tool. UnixWare 7.1.3 is also an effective platform to enable migration from Linux or Windows to the more scalable, reliable, secure UnixWare. Operating system conversion projects can be risky because your business doesn't stop while the changes are being made. UnixWare 7.1.3 reduces that risk by staging the conversion to deal with only one variable at a time. Your business processes can continue to run unchanged while the IT organization fine tunes and optimizes the platform environment. Business process application changes are easily phased in according to a schedule dictated by the business rather than by a schedule dictated by technology.

UNIXWARE 7.1.3 PRODUCT FAMILY DESCRIPTION

UnixWare 7.1.3 is the most advanced deployment platform for industry standard Intel and AMD processor systems. UnixWare 7.1.3 is the trusted foundation for solutions where proven scalability, reliability, security and affordability are critical. While most technology suppliers deliver new features by releasing major new versions of software every 18 - 24 months, SCO understands that many businesses rely on leading edge technology to maintain their competitive advantage. That's why SCO is introducing SCO Update Service for UnixWare 7.1.3. SCO Update Service simplifies and streamlines the process of deploying new technology and keeping deployed systems up to date. This innovative service provides electronic delivery of operating system changes, gives customers control of the upgrade process and helps customers accurately budget for the cost of system upgrades.

UNIXWARE 7.1.3 CONSISTS OF A COMPREHENSIVE FAMILY OF FIVE (5) PRE-CONFIGURED EDITIONS, OPTIONAL PRODUCTS AND ADD-ON LICENSES

The UnixWare 7.1.3 Base Edition provides a solid foundation for building dedicated or specialized server environments, such as telecommunications equipment and other embedded or replicated systems. It also excels as a powerful graphical workstation. The Base Edition comes standard with LKP and provides all the key system services required for a standalone or networked platform including powerful multi-tasking support, unsurpassed scalability, TCP/IP networking, Internet mail services, and Java™. Starting with this single processor and single user configuration with support for 1GB of memory, customers can easily expand to meet their growing needs via the addition of optional processor, user and memory upgrade licenses.

The UnixWare 7.1.3 Business Edition is targeted for small businesses, replicated sites or workgroups requiring file and print services, reliable access to diverse applications, and the ability to expand system capability as the organization grows. For small organizations that require Internet services, the Business Edition includes FTP server, Web server, e-mail and remote access services. The Business Edition is the ideal OS of choice for migrating your business-critical applications currently running on a proprietary RISC UNIX, SCO OpenServer® from SCO or Windows NT® servers. As with all the UnixWare 7.1.3 Editions, The Business Edition includes support for 5 users, a single processor and up to 4GB of memory.

The UnixWare 7.1.3 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 is the mid to high tier solution for organizations that require a secure, mature, stable platform to support business critical applications. It has all of the features and functionality to make it a natural choice where reliability and performance are critical success factors, and it can scale in processing power as your organization grows. The Departmental Edition includes LKP and provides standard support for two processors, 25 users and 4GB of memory.

The UnixWare 7.1.3 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. It delivers vastly superior availability and on-line serviceability by leveraging the latest innovations in industry standard technologies such as Hot Plug PCI and PCI-X, Hot Plug CPU and Hot Add Memory, Multi-path I/O and I2O. The Enterprise Edition is licensed for 4 processors, 50 users, 16 GB of memory and RAID support with the Online Data Manager and includes LKP.



The UnixWare 7.1.3 Data Center Edition is unmatched in its ability to deliver the total performance and capabilities of UNIX systems. UnixWare 7.1.3 runs on cost efficient Intel and AMD processor-based servers, making it a more affordable solution than comparable proprietary RISC systems. Its proven reliability makes it an excellent choice for the highest-end multipurpose servers. The Data Center Edition is built to meet the performance and 24 x 7 x 365 availability demands of business-critical application environments. It delivers superior availability and on-line serviceability, by leveraging the latest innovations in industry standard technologies such as Hot Plug PCI and PCI-X, Hot Plug CPU and Hot Add Memory, Multi-path I/O and I2O. It also allows for redundant HBAs, network cards, and 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 Reliable@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 7.1.3 EDITION SUMMARY				
BASE	BUSINESS	DEPARTMENTAL	ENTERPRISE	DATA CENTER
1 User 1 CPU 1GB Memory	5 Users 1 CPU 4GB Memory Windows File & Print	25 Users 2 CPUs 4GB Memory Windows File & Print	50 Users 4 CPUs 16GB Memory Online Data Manager Windows File & Print	150 Users 8 CPUs 32GB Memory Online Data Manager Event Logging w/ Relational Database Windows File & Print
USER INTERFACE: CDE, PANORAMA, CHARACTER				
LINUX KERNEL PERSONALITY (LKP)				
ADMINISTRATION FRAMEWORK				
TCP/IP, PPP, IP Filtering		Sendmail System, POP, IMAP4	Integrated HTTP Server, Web Browser	
With high availability, large memory and large filesystems				

UNIXWARE 7.1.3 OPTIONAL PRODUCTS AND ADD-ON LICENSES

- Reliant@HA 1.1.3 Clusters
- Online Data Manager 3.2
- Disk Mirroring 3.2
- UnixWare and OpenServer Development Kit (UDK) 7.1.3
- NetTraverse Merge™ 5.3
- Advanced File and Print Server 4.0.2.5
- SCOoffice Mail Server
- Samba 2.2.4
- Samba Multibyte Version 2.2.5
- Squid Caching Proxy Server 2.4 STABLE7
- Cdrtools 1.1.1a21 – record audio/data CDs
- 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

WHAT'S NEW IN UNIXWARE 7.1.3?

SCO Update Service

SCO Update Service simplifies and streamlines the process of deploying new technology and keeping deployed systems up to date. This innovative service provides electronic notification and delivery of operating system changes, gives customers control of the upgrade process and helps customers accurately budget for the cost of system upgrades. SCO Update requires a separate license key, and is available either bundled with UnixWare 7.1.3 or as a separate purchase.

Linux Kernel Personality

LKP has been upgraded to provide world-wide, multi-byte language support. Beyond the environment upgrade, overall performance has been improved, CD format extensions (Joliet) have been added and LKP documentation has been improved and better integrated into the UnixWare environment. With the new release

users will be able to run a wider range of Linux applications alongside their current UNIX applications on the same system. Current users of LKP will be able to upgrade their systems to the latest release.

OpenServer Kernel Personality (OKP)

The newest feature addition is OpenServer Kernel Personality (OKP). While UnixWare has been capable of hosting many native OpenServer applications for some time, OKP is an additional level of compatibility. OKP provides an entire OpenServer environment installed on UnixWare be it OpenServer 5.0.4, 5.0.5, 5.0.6 or even a fresh 5.0.7. OKP provides customers with an attractive migration path to UnixWare, or simply with increased performance and scalability for OpenServer applications.

Customers who have licensed UnixWare 7.1.3 prior to the availability of OKP can download this new feature by visiting www.SCO.com/support/download.html

Improved Hardware Support

SCO works closely with its OEM partners to ensure that its operating systems products track the direction of the major OEM suppliers. UnixWare 7.1.3 has been updated to support these new chips and devices.

- To support the new legacy free system designs, Universal Serial Bus (USB) support has been integrated into the new release including:
 - USB 2.0 support (EHCI)
 - USB 1.1 support (OHCI, UHCI)
 - Class Drivers are provided for HID devices such as Hubs, Keyboard, and Mouse and for Mass storage devices such as CD-ROM, Floppy, LS-120 and LS-240
- Basic support for the new Intel® Xeon™ Hyper-threading architecture available on some Pentium 4 processors including partial ACPI support.
- Support for removable media: CD-RW, CD-R, ZIP and DVD devices
- SCSI-3 support has been integrated allowing use of these faster controllers in supported systems
- New and updated graphics, network and HBA drivers

ENHANCED NETWORKING CAPABILITIES

- Support for NFSv3, including NFS over TCP has been added
- Overall network performance and scalability improvements in the range of 15-20% have been realized over the previous release. To accomplish this incremental improvements have been made in both kernel and hardware support components of the operating system.

NETWORK APPLICATIONS

The following native UnixWare ports of Open Source components have been added as part of the basic system installation as fully supported components.

- OpenSSL (Secure Sockets Layer)
- OpenSLP (Service Location Protocol)
- OpenSSH (Secure Shell)
- The Apache Web Server
- Samba and the Squid Proxy Server have been added as fully supported native UnixWare ports on the Optional Services CD
- In addition updated versions of bind, gated and routed are included in UnixWare 7.1.3

Upgraded Java Support

- The Java 2 SE (Standard Edition) Version 1.3.1_04 SDK
- Java 2 SE Version 1.3.1 Runtime Environment
- Netscape Java plug-in module

Additional New Features

- The DocView Documentation Server has been added to provide significantly improved access to all online documentation installed on UnixWare 7.1.3.

Installation improvements

- Support for boot partitions up to 8GB
- Faster installation process
- Single Step Upgrade from Open UNIX 8 (UW7.1.2) or UW7.1.1

Additionally significant maintenance work has been incorporated into UnixWare 7.1.3

- Integrated UW7.1.2 (OU8) Maintenance Packs
- Integrated applicable portions of UW7.1.1 Maintenance Packs
- Integrated security fixes and PTFs

UPDATE TO OPTIONAL SERVICES

The UnixWare Optional Services CD-ROM has been extensively reworked for the new product release and for the first time includes fully supported Open Source components for native use with UnixWare 7.1.3.

A new and enhanced version of NetTraverse Merge™, Release 5.3 has been added. Merge supports the execution of Windows ME and Windows 98 as a guest OS allowing Windows applications to run natively.

Reliant@HA has been upgraded to Release 1.1.3. This version is designed for both new installations and updating current ReliantHA 1.1.1 and 1.1.2 installations to the current release. Release 1.1.3 incorporates maintenance and minor enhance-

ments, provides support for failover of OpenLinux 3.1.1 applications under LKP, and includes Sample scripts for Oracle 9i running under LKP.

The following Open Source components are new to the Optional Services CD.

With the move to the Optional Services CD the provided versions now become fully SCO supported standard components of UnixWare 7.1.3.

- Samba 2.2.4
- Samba Multibyte Version 2.2.5
- Squid Caching Proxy Server 2.4.STABLE7
- Cdrtools 1.11a21 - record audio/data CDs

Lastly, the Advanced File and Print Server (AFPS) has been updated to Release 4.0.2.5

UNIXWARE AND OPENSERVR DEVELOPMENT KIT

The latest release of the UnixWare and OpenServer Development Kit (UDK) supersedes the kit offered with UnixWare 7.1.2 (Open UNIX 8) and Feature Supplement 7.1.1b offered for UnixWare 7.1.1. It contains updated C and C++ compilers and the graphical debug tool that enables the rapid development of applications for UnixWare 7.1.3. 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, an enhanced graphical debugger, and a new tool (memtool) to diagnose dynamic memory allocation errors on UnixWare 7.1.3. This kit can be used to develop applications that can also be deployed on UnixWare 7.1.2 (Open UNIX 8) and UnixWare 7.1.1.

The Compatibility Modules for SCO OpenServer™ are once again supported with this development kit, as was the case with UnixWare 7.1.1. The new kit can also be used to create binaries for execution on SCO OpenServer Release 5.0.6 and Release 5.0.7. Details on using this feature are provided in the release notes.

The new kit includes the Java 2 Standard Edition Version 1.3.1_04 SDK which includes the Java compiler, interpreter, classes, runtime environment and Netscape Java plug-in module.

Also included is an updated release of the supported Open Source Tool Kit, including the GNU Tool Chain encompassing a set of compilers, debugger, object tools, libraries and other open source tools that can be used to develop, enhance and compile UNIX programs for use on UnixWare 7.1.3, UnixWare 7.1.2 (Open UNIX 8) and UnixWare 7.1.1.



UNIXWARE 7 TECHNICAL SPECIFICATIONS

LEGEND: 0=Optional services (add-on); ✓=Included in edition; +=Configuration upgrade option; *=-New in Release 7.1.3; **=Changed/Upgraded in Release 7.1.3

EDITION (OPERATING SYSTEM)	BASE	BUSINESS	DEPARTMENTAL	ENTERPRISE	DATA CENTER
SVR5 SMP kernel**	✓	✓	✓	✓	✓
User Licenses	1	5	25	50	150
User License Upgrades: 10/25/100/500 cumulative and unlimited	+	+	+	+	+
Processors	1	1	2	4	8
Processor Upgrades: 1 CPU (cumulative)	+	+	+	+	+
Maximum Main Memory	1GB	4GB	4GB	16GB	32GB
Main Memory Upgrades: 4GB/16GB/32GB/64GB (maximums)	+	+	+	+	+
General Purpose Memory Support up to 16GB	✓	✓	✓	✓	✓
Standards: UNIX 95, XPG4.2, SVID 4.2, POSIX 1003.1, 1003.2, FIPS-151-2 and designed to meet C2 Security	✓	✓	✓	✓	✓
Linux Kernel Personality (LKP)**	✓	✓	✓	✓	✓
Event Logging	✓	✓	✓	✓	✓(w/SQL support)
Desktop Management Interface (DMI)	✓	✓	✓	✓	✓
Bootable CD-ROM Support**	✓	✓	✓	✓	✓
USB 2.0 and 1.1 Support*	✓	✓	✓	✓	✓
Support for Uniform Driver Interface (UDI) Version 1.0.1**	✓	✓	✓	✓	✓
Hot Plug PCI, MultiPath I/O, I2O, PCMCIA,	✓	✓	✓	✓	✓
Hot Plug CPU and Hot Add Memory	✓	✓	✓	✓	✓
Network Install	✓	✓	✓	✓	✓
DocView Online Documentation System*	✓	✓	✓	✓	✓
Bundled Base 56 Bit Encryption Support	✓	✓	✓	✓	✓
MS Windows ME and Windows 98 Application Support (Merge 5.3)**	0	0	0	0	0
C Compiler/Libraries**	✓	✓	✓	✓	✓
C++ Compiler/Libraries, Open Source and GNU Tool Chain for UNIX (w/UDK)**	✓	✓	✓	✓	✓
Linux Open Source and GNU Development Tools for LKP**	✓	✓	✓	✓	✓

INTERNET SERVICES

Netscape Communicator 4.6.1	✓	✓	✓	✓	✓
Apache Web Server;** Squid Proxy Server**	✓	✓	✓	✓	✓
Java™ 2 Standard Edition Release 1.3.1 runtime support and JDK*	✓	✓	✓	✓	✓
Netscape Java Plug-in*	✓	✓	✓	✓	✓

NETWORKING

TCP/IP w/Internet utilities, IPv6 APIs	✓	✓	✓	✓	✓
DHCP Server, DHCP Client, SNMP (MIB II)	✓	✓	✓	✓	✓
Multilink, Multidomain PPP, SLIP	✓	✓	✓	✓	✓
IPX/SPXII, NetBios	✓	✓	✓	✓	✓
ISDN, Fast Ethernet (100MB/1GB, FDDI)	✓	✓	✓	✓	✓

FILE AND PRINT SERVICES

Advanced Windows NT Domain Control and File and Print - AFP5 & Samba**	0	0	0	0	0
NFSv3**, NIS	✓	✓	✓	✓	✓
NFS over TCP/IP	✓	✓	✓	✓	✓

MAIL AND MESSAGING

Sendmail, IMAP4, POP3, SMTP, MIME	✓	✓	✓	✓	✓
Graphical and Character Clients	✓	✓	✓	✓	✓

RAS SERVICES

High-performance, multi-threaded journaling file system	✓	✓	✓	✓	✓
UnixWare 7.1.3 Disk Spanning	✓	✓	✓	✓	✓
UnixWare 7.1.3 Disk Mirroring	0	0	0	0	0
Online storage management with RAID - UnixWare 7.1.3 Online Data Manager	0	0	0	✓	✓
High Availability Clustering - Reliant HA for UnixWare 7.1.3**	0	0	0	0	0

EASE-OF-USE AND GRAPHICS

Easy to use Text Editor: pico	✓	✓	✓	✓	✓
X11R6, Motif Window Manager, character interface	✓	✓	✓	✓	✓
CDE Desktop and Clients, Panorama Window Manager	✓	✓	✓	✓	✓
Advanced Graphics Adapters, Audio Drivers	✓	✓	✓	✓	✓

SYSTEM REQUIREMENTS

Memory (Recommended without/with LKP)	64/128MB	64/128MB	64/128MB	64/128MB	64/128MB
Disk Space (Recommended without/with LKP)	1/4GB	1/4GB	1/4GB	1/4GB	1/4GB
Graphics (Recommended Minimum 1028x768 VGA, 1280x1024 for Merge)	✓	✓	✓	✓	✓

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