

Solstice™ Network Client™ 3.2

Solstice™ Network Client™ 3.2 software provides users of Microsoft Windows 3.x, Windows 95, Windows 98, and Windows NT with high-performance, advanced intranet/Internet connectivity and applications.

Solstice™ Network Client™ 3.2 software, Sun's leading PC-to-enterprise solution, offers a broad range of applications that enable superior integration of PCs into the intranet and enterprise network. This new and innovative solution to PC integration includes products that meet your specific needs:

- *Solstice Network Client 3.2* provides high-performance, advanced intranet/Internet connectivity and applications for Microsoft Windows users, and includes *Solstice™ NFS™ Client™ 3.2* software.
- *Solstice NFS Client 3.2* offers low-cost, high-performance intranet NFS™ file and print services for Microsoft Windows users.

The Capabilities Intranet PC Users Need

Included in this product set are key capabilities that enable your users to more productively and securely access the corporate intranet and the Internet:

- Powerful NFS delivering connectivity across all Microsoft Windows platforms
- Solstice™ PC-CacheFS™ – offering enhanced network file access
- Web-enabled HOSTACCESS® – enabling host access from within a browser
- WebNFS™ – allowing users to browse file systems on WebNFS servers over the Internet
- PC-Xware® 5.0 – bringing graphical UNIX® applications to your desktop
- Solstice™ PC-SKIP™ – providing rigorous TCP/IP security through data encryption and authentication of the IP traffic stream

Solstice Network Client 3.2 software enables Microsoft Windows desktop users to access sophisticated intranets and the Internet while remaining shielded from network complexities. It offers superb network integration for all Microsoft Windows platforms available today — enhancing the basic networking supplied by the operating system. Solstice Network Client makes it easy for your users to become full participants in your corporate intranet and the Internet.

Leading-Edge Technology

Solstice Network Client 3.2 delivers all the capabilities you need to best integrate your Microsoft Windows PC users into true heterogeneous environments.

- File access is simpler because Solstice Network Client's automount feature provides transparent access to location-independent NFS resources.
- File-server efficiency is increased through the use of NFS v3.
- Wide area networking is more reliable with NFS over TCP/IP.
- Network and file-server performance is significantly enhanced with Sun's new PC-CacheFS technology.
- Support for Winsock v2.0 and NIS/NIS+ enables PC networks to participate in enterprise-wide naming services.
- Secure connections are assured across the intranet and Internet with Sun's new SKIP technology.

Key Features of Solstice Network Client 3.2

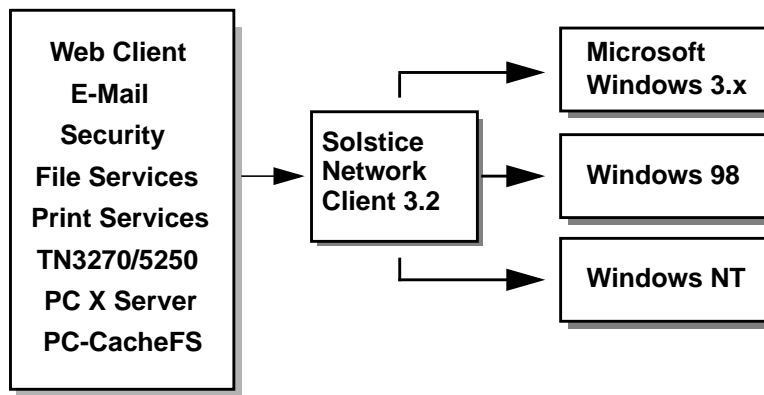
Building on Sun Microsystems' history of leadership in the integration of PC and NFS environments, Solstice Network Client 3.2 software combines many powerful functions into one complete product, offering new and unparalleled capabilities.

- *Support for all Microsoft Windows Desktop Platforms.* Solstice Network Client 3.2 supports Microsoft Windows 3.1/3.11, Windows for Workgroups 3.11, Windows 95, Windows 98, and Windows NT 4.0.
- *High-Performance NFS v3 Client.* Windows 95, Windows 98, and Windows NT 4.0 users can benefit from improved file sharing and ease of use. Solstice Network Client's NFS v3 client provides advanced NFS access to UNIX and other intranet NFS file servers.
- *NIS/NIS+ Client Support.* Sophisticated enterprise-wide naming services can be used for easier network administration and access.
- *Modular Install Capability.* You can choose which functions you want to install for your users. Components can be installed on all Microsoft Windows platforms via a single interface. Upgrade procedures are performed automatically.
- *Support for Long File Names and Network Neighborhood.* Windows 95, Windows 98, and Windows NT users enjoy the seamless integration of Solstice Network Client functionality with their Microsoft Windows platforms.

- *Automounter Support.* NFS servers and NFS network resources are instantly available to users without needing to know where the resources are located on the network.
- *Centralized Administration.* Incorporates support for Solstice™ PC-Admin™ as well as Microsoft Windows User Profiles and System Policies from a Solaris™ server.
- *Login Scripts.* Automatic execution of batch files or other executables when user logs into network. Scripts can be stored on a central Solaris or other UNIX server, or a Windows NT Server.
- *Uses Microsoft's TCP/IP Protocol Stack.* Windows 95, Windows 98, and Windows NT 4.0 users are certain of full compatibility with all other Microsoft networking components. A Sun™ TCP/IP protocol stack is supplied for Microsoft Windows 3.x users.
- *32-Bit Intranet/Internet Applications.* Sophisticated applications enable users to be more productive using the services of your internal networks and the Internet.
- *Non-Volatile Disk Caching.* Caching of network drives and local CD-ROMs improves network performance and reduces server load.
- *New Web-enabled HOSTACCESS® Application.* Users gain new terminal-emulation capabilities from their familiar Web browser, including Telnet, TN3270, and TN5250.
- *PC X Server.* Included is PC-Xware® software from NCD, an integrated X11R6 server for graphical PC access to X11 applications.
- *TCP/IP Security.* Multi-format data encryption and authentication of all TCP/IP network traffic enables Windows 95 and Windows 98 networked applications and services to become transparently secure.

With Solstice Network Client 3.2 you get all of the capabilities to best integrate your Microsoft Windows PC users into true heterogeneous environments, the corporate intranet, and the Internet.

Solstice Network Client 3.2



Features of Solstice Network Client 3.2

NFS and TCP/IP Connectivity

Solstice Network Client 3.2 software is a complete and robust solution for connecting your PCs to corporate TCP/IP networks, intranets, and the Internet. It offers Microsoft Windows implementations of key Solaris networking technologies available today. Exclusive to its NFS solution is NIS+ client support, integrated caching for network performance, and NFS automounter support.

The NFS and TCP/IP connectivity component includes:

- NFS v3 and NFS v2 client support over TCP/IP and UDP/IP
- NFS v2 server for peer-to-peer networking
- WebNFS™ software for enabling users to browse file systems on WebNFS servers over the Internet
- NIS+, NIS, and DNS support for enterprise-wide naming services
- Sun's TCP/IP stack for Microsoft Windows 3.x users
- Automounter from files, NIS, and NIS+
- Universal Naming Convention (UNC) support

- Unified Microsoft Windows and network login
- PCNFSD and LPR printer support to enable users to print directly to other network printers
- Full integration with the Microsoft TCP/IP stack and Network Neighborhood in Windows 95, Windows 98, and Windows NT 4.0
- Ability to be managed by the DHCP and configuration capabilities of Solstice PC-Admin software
- LPD server allows a locally-attached printer to be used by other PC or UNIX LPR clients

Exclusive to Microsoft Windows 3.x Users with the Solstice TCP/IP Stack:

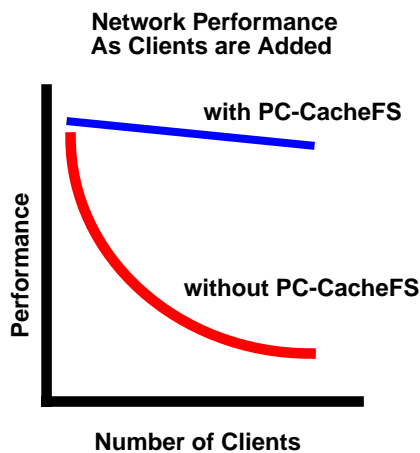
- Includes an SNMP agent and support for MIB-II (RFC 1213) and Host Resources MIB (RFC 1514)
- A complete set of utilities and network services are provided: FTP, License Manager, Network Statistics, Network Time, Finger, RSH/REXEC, Text Converter, PING, Network Event Log, Local Servers (FTP/Telnet Server)
- Included are a set of DOS command-line utilities such as *ls*, *nfs*, *ping*, *rcp*, *rsh*, and *rlogin*
- A DOS Print Redirector enables the user to access network printers from within a DOS box or DOS application
- Network driver chaining allows users to have TCP/IP and another network enabled simultaneously

Standards Supported:

- TCP/IP, WinSock 1.1, WSOCK32, and WinSock 2
- DHCP and BOOTP
- NFS v3 and v2
- NIS+, NIS, DNS
- SNMP

Solstice PC-CacheFS

Significant improvements in network performance are available with caching. Solstice Network Client 3.2 enables frequently accessed network or CD-ROM files to be transparently copied onto local drives to reduce server load and improve performance. Sun's technology to accomplish this is called PC-CacheFS.



With Solstice PC-CacheFS software, frequently accessed files are copied to the user's local hard drive — but only the portion being used is actually copied. All future references to this portion of the file are quickly accessed from the local drive, which frees up the network to other users.

Among the impressive features of the Solstice PC-CacheFS component are:

- Easy installation
- Complete transparency for the user
- Non-volatile cache
- Larger than memory-based caches

- Network independence — Solstice PC-CacheFS works with any network that supports Microsoft Windows 3.x and networks that are compliant with Windows 95 Installable File System (IFS)

Intranet/Internet Applications

Solstice Network Client 3.1 software includes business-critical applications designed to make your users more productive and efficient.

- *Pronto® E-Mail v4*. Advanced e-mail capabilities and seamless integration with Sun™ Internet Mail Server™ software are provided. Pronto E-Mail includes the following new features:
 - User interface is consistent with the Windows 95 and Windows 98 look and feel; easy to use and highly customizable
 - Users can view the incoming mail headers before the messages are downloaded and choose which messages to download, which to postpone, and which to delete
 - Filters enable users to defer low-priority mail and screen out mass mailings; users define the criteria that permit messages to be downloaded (size, date, sender, etc.)
 - Rules can be set to automatically file, forward, and reply to mail
 - Mail can be sorted into folders which can be shared with groups
 - When remote, users can put mail in folders which are then synchronized whenever a connection to the host is made
 - Support for POP3 and IMAP4 protocols for retrieving mail from a server
 - Support for SMTP for sending mail
 - Support for MIME for binary files and attachments
 - Advanced editing support with multilingual spell checking
- *Netscape Communicator™ 4.0x*. One of the industry's most popular Web browsers with an Internet news reader capability, it adds integrated Java™

support enabling platform-independent Java applications to run on the PC desktop.

- *Web-enabled HOSTACCESS*. This new application gives users access to a wide range of host-based or character-based applications from either a Web browser or the normal windows interface. Its features include:
 - Over 10 terminal emulations including VT52 through VT420, SCO-ANSI, Wyse 50/60, TVI920 as well as TN3270 for mainframe access and TN5250 for AS/400 access
 - An easy-to-use interface
 - Programmable keyboard and function keys
 - Multiple simultaneous host-session support
 - Copy and paste between sessions
 - A scripting and macro language allowing automation of many tasks
- *FTP Tool*. Users benefit from the graphical Windows 95 Explorer look-and-feel.

Standards Supported:

- TCP/IP, WinSock 1.1, WSOCK32, and WinSock 2
- NIS+, NIS, DNS
- IMAP4, POP3, SMTP, MIME
- HTML, HTTP
- Java, JavaScript™ language

PC-Xware

Solstice Network Client 3.2 software includes the only X/Open® branded X server for Microsoft Windows available on the market today. Microsoft Windows users who require graphical access to X-based applications are assured compatibility with the widest range of X applications, including CDE-based applications.

PC-Xware offers the following features:

- Local or remote management to ease administrative overhead
- Choice of window manager
- A graphical keyboard remapper allowing emulation of popular UNIX keyboards

- Copy and paste of text and graphics between Microsoft Windows and UNIX applications

Standards Supported

- X11R6

TCP/IP Security

Solstice Network Client 3.2 software offers a Windows 95 security component to address a major concern of customers who deploy widely connected networks and access the Internet. Solstice™ PC-SKIP™ software is a Microsoft Windows implementation of the emerging SKIP (Simple Key-management for Internet Protocols) standard. It provides data encryption and authentication of the IP traffic stream. Once installed, end-user devices such as remote clients, workstations, and servers can securely conduct business over the Internet and corporate intranets.

Besides enabling point-to-point communication, Solstice PC-SKIP also permits remote or mobile employees and customers to securely communicate with protected corporate sites when used with any of Sun's SunScreen™ firewall products.

Solstice PC-SKIP software provides security transparently to users and enables secure communication without requiring knowledge of SKIP or modifications to existing applications.

Solstice PC-SKIP supports:

- IPv4 addressing
- Automatic certificate discovery, allowing SKIP hosts to exchange public-key certificates without the need for manual intervention or floppy swapping
- Encryption algorithm discovery
- Perfect Forward Secrecy (PFS) providing security for past network traffic, even if long-term keys are stolen or compromised

The SKIP rapid in-line update of the keys used for traffic encryption provides one of the highest levels of security currently available for implementation on end systems devices. SKIP changes the encryption keys every 30 seconds or 500 Kbytes by default to minimize the amount of network data encrypted with a single key. This feature significantly reduces the amount of data sacrificed if an unauthorized party gains access to one of the keys.

Additionally, SKIP in-line key updates work even over unidirectional links, such as IP delivered by satellite or cable broadcast. SKIP encryption may coexist with the other popular application encryption schemes such as PGP, PEM, and SSL.

Solstice NFS Client 3.2

Solstice NFS client is the solution for Windows users who need only the NFS file-sharing connectivity and caching capabilities of Solstice Network Client. There's no need to purchase more functionality than your users require. Solstice NFS Client provides an affordable solution for integrating Microsoft Windows users into heterogeneous networks. No user retraining is required as your users gain transparent access to files and data on UNIX and other TCP/IP networks.

Solstice NFS Client software offers the following features:

- High-performance TCP/IP and NFS networking
- Integrated PC-CacheFS for improved network and file server performance
- Support for enterprise naming services (NIS/NIS+)

The above capabilities are the same advanced functions found in Solstice Network Client 3.2 software. Therefore,

your PC users benefit from the same leading-edge technology employed in Solstice Network Client.

Solstice Network Client System Requirements

- **Hardware:** Any Intel 386, 486, or Pentium PC capable of running Microsoft Windows
- **Operating System:** Microsoft Windows 3.1/3.11, Windows for Workgroups 3.11, Windows 95, Windows 98, or Windows NT 4.0
- **Disk Space:** Minimum requirements range from 4 MB to 30 MB. PC-CacheFS caching software requires approximately 30 MB
- **Memory:** Minimum requirements are 8 MB for Microsoft Windows 3.x users and 16 MB for Windows 95, Windows 98, or Windows NT 4.0 users
- **Network Interface:** Any standard network interface supported by Microsoft Windows. Dial-up PPP is also supported
- **Media:** CD-ROM

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