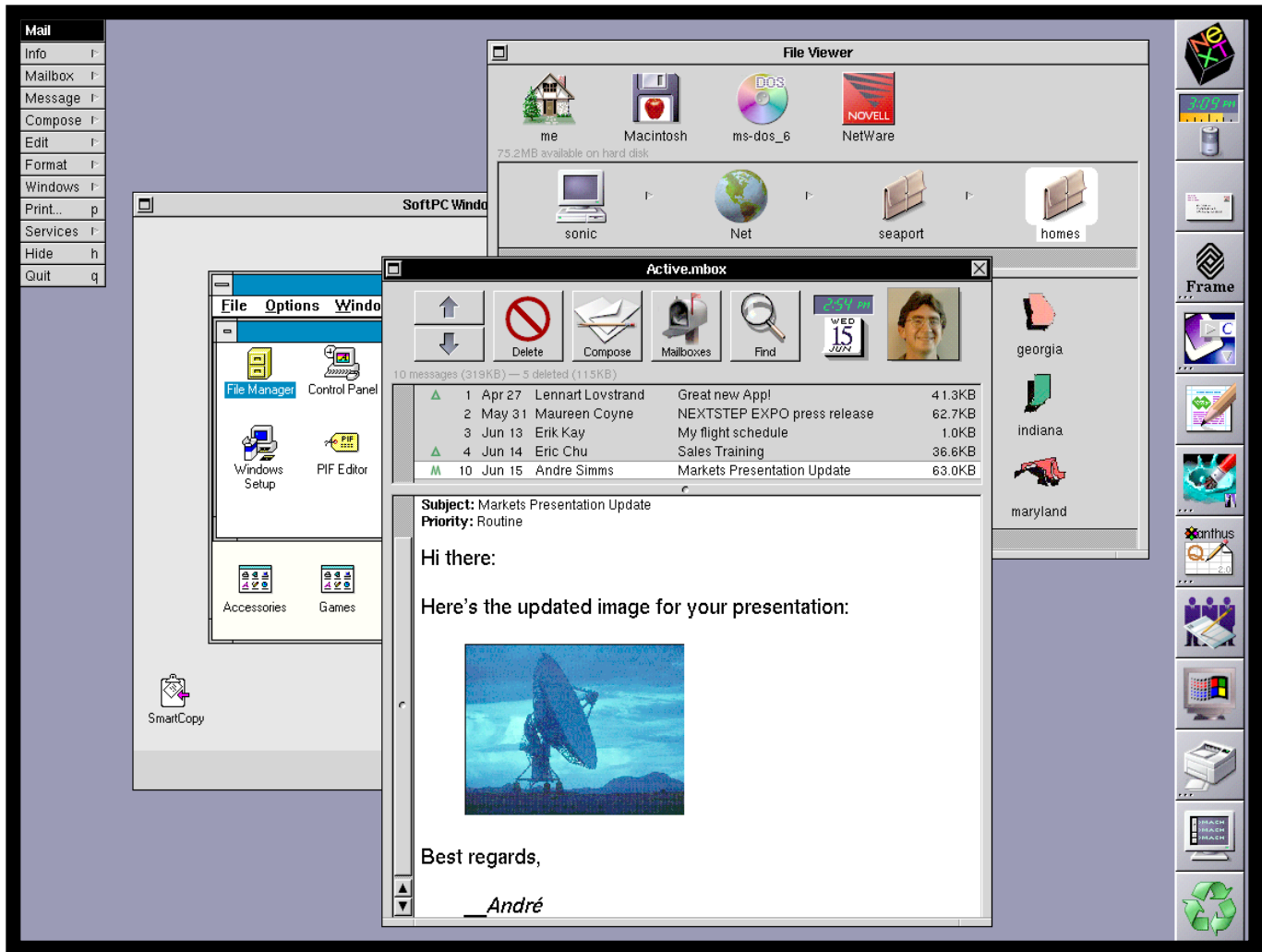# NEXTSTEP™ RELEASE 3.3 UPGRADE

NEXTSTEP Release 3.3 combines the robustness of mainframe operating systems with the flexibility of PCs, making it the best environment for enterprise-wide deployment of object-oriented custom applications.

NEXTSTEP™ is the first and only UNIX-based operating environment to integrate object-oriented technology, industry standard networking and connectivity, and an award-winning graphical user interface. With the addition of NEXTSTEP Developer, people develop client/server custom applications that can be seamlessly integrated with shr to create comprehensive business solutions.

NEXTSTEP Release 3.3 incorporates enhancements based on feedback from custo large-scale NEXTSTEP environments. Release 3.3 addresses many critical depl including scalability, robustness, interoperability and ease of use. By incorporating core technologies from Mach 3.0 and BSD 4.4 networking, Release 3.3 operates mor and scales better to networks with tens of thousands of users.

NeXTmail™ has been significantly improved in Release 3.3 to give users greater electronic mail is accessed, managed, and stored. In addition, MIME support users to send and receive multimedia messages with users of other popular e through the same intuitive NeXTmail interface.

To make NEXTSTEP run on a wider selection of PC configurations, Release 3.3 i for PCMCIA, PCI and ISA Plug-and-Play, Advanced Power Management, 8, and many new peripherals.

HIGHLIGHTS

The NEXTSTEP User Experience

NEXTSTEP is the only object-oriented operating sys...
today. NEXTSTEP delivers a consistent graphical use...
across wide-area networks such as TCP, and AppleTalk.
NEXTSTEP unifies the desktop by providing interoper...
custom solutions developed for NEXTSTEP and applic...
for the MS-Windows, X/Motif, and mainframe environ...

ROBUSTNESS

The smooth operation of a company depends on the u...
service of its mission-critical applications. If a...
company cannot make trades for fifteen minutes due...
down-time, it could lose hundreds of thousands in...
NEXTSTEP Release 3.3 is designed to service these...
applications 24 hours a day, seven days a week.

Hundreds of carefully chosen focused enhancements...
improvements have been added throughout the system...
the overall robustness of the operating system whi...
backward compatibility. This strategy enables NeXT...
new technologies to the NEXTSTEP community while p...
seamless and painless upgrade path.

SCALABILITY

Today's enterprise-wide deployment means tens of th...
users on the same network across multiple routers...
NEXTSTEP Release 3.3 includes critical technologie...
large-scale networks and reduce support costs by a...
enterprise-wide deployment with a much lower ratio...
administrators to users. For example, with the new...
system administrators can now install and maintain...
of network user accounts quickly. With the enhancements in
NetInfo, NEXTSTEP can now support tens of thousands...
network nodes.

With NEXTSTEP Release 3.3, companies can grow their...
exponentially with ease without the need to increa...
administration resources at the same pace. Release...
administration tools allows new system administrat...
productive with minimum training, and empowers exp...
system administrators to maintain a large enterpri...
with greater ease.

PERFORMANCE

In a large-scale deployment with tens of thousands of user...
productivity gains from overall increased system responsiv...
and better tools means thousands of dollars in savings. By...
advantage of BSD 4.4 networking, NEXTSTEP Release 3.3 deli...
better wide-area-network performance while technologies fro...
3.0 enables NEXTSTEP to task switch more efficiently. By...
streamlining and accelerating frequently performed tasks s...
finding, sorting, and addressing in NeXTmail, adding or del...
large number of users in User Manager, upgrade in Upgrader...
and on-the-fly NetInfo backup & restore in NetInfoManager...
NEXTSTEP Release 3.3 provide tools that enable users to wor...
by working smarter.

OPEN STANDARDS

With Release 3.3, NeXT continues its commitment and willin...
to adopt industry standard technologies to ensure interope...
flexibility, and a high degree of collaboration between technolo...
from different vendors. MIME support enables NEXTSTEP user...
easily exchange files and images with widely used PC and UNI...
applications. The support of PCI and ISA Plug & Play great1...
the complexity of PC hardware configuration. PCMCIA, 8 bit c...
Advanced Power Management enables users to operate NEXTSTE...
on standard PC notebooks.

EASE OF USE

Just as performance gains translate into productivity gain...
that enable new users to learn an operating environment qu...
equally important. In addition, support costs can be signifi...
if users are equipped to help themselves in times of troub...
3.3 includes a new Quick Start Guide that enables new users...
all the basics in 30 minutes; this tool greatly accelerate...
curve of NEXTSTEP. Once these users are familiar with the basi...
of NEXTSTEP, they can rely on the new Documentation Roadmap...
to provide pointers to all the documentation including comp...
on-line help for most of the major applications that are b...
with NEXTSTEP. To empower those who are already familiar...
with the system, a new Power Manual provides many tips...
and shortcuts. These tools keep support and training costs...
as the number of users and network nodes increases.

NEW FEATURES AND BENEFITS

Mail

MIME Support

As a widely supported standard, MIME support enables NEXTSTE
users to exchange mutimedia e-mail with other non-NeXT MIME
users.

Through the same intuitive NeXTmail interface, users can
transparently read and send messages containing file attachme
rich text, images and sound objects.

Mail Size Management

Information such as the number of read and deleted messages,
of each message, and the number of new messages is now easil
accessible. Users can also quickly locate large e-mail messa
through the feature "sorting by size". These features greatl
the task of overall mailbox size management.

Selective & Summary Printing

Users can now print out the summary of an entire mailbox or
of selected messages. This feature enables users to manage t
e-mail messages off-line when necessary

Enhanced Searching

In addition to searching by subject and sender, users can now
locate mail by searching through the message body. The "Focus"
feature makes it more efficient to navigate and view only the
messages. After several iterations of "Find" and "Focus," us
quickly filter all non-relevant messages.

Save & Restore Drafts

Similar to a word processing document, partially composed un
messages can be saved and brought back with the subject and
address fields intact.

Users can now begin composing multiple messages and use this
feature to preserve work-in-progress from accidental loss—or
conveniently come back to it at a later time.

Outgoing Message Archive

In addition to automatic archival of all outgoing messages,
who are concerned with disk space can selectively archive sp
messages.

In-line Address Completion

By typing the first few letters of an address in the "To" field and
pressing the Esc key, NeXTmail will automatically scroll through t
possible options from the list of public and private users a
This feature reduces the number of keystrokes and the freque
access to the Address panel.

Hierarchical Mailboxes

Mailboxes in Release 3.3 can now be organized into a tree-li
hierarchy. Messages stored in a meaningful structure of mailbox
gain relevance through their implicit association with folde
Retrieval of messages can also be faster by simply navigatin
the hierarchy

User Defined Fields

Custom fields can now be added to a message header to label
outgoing messages. For instance, a user can label a message
a field called "priority" and set it to "high" or "low". This
recipients to quickly identify important messages.

New Productivity tools

The mail icon now displays the number of unread messages in
Active mailbox. In addition, users can manage the incoming m
workload by individually marking messages in any mailbox as
or unread.

NEW FEATURES AND BENEFITS

Networking

NetInfo

The only proven enterprise-wide network administration datab
NetInfo now supports 10,000+ nodes across wide-area networks
which enables corporations to grow their NEXTSTEP networks
globally without sacrificing data integrity or network perfor

Other new features include integrated DNS support and improve
diagnostic messages.

UserManager

The tool for managing user accounts and user groups has been
updated to support large corporate networks. With the new bu
add-and-delete feature, system administrators can manage thou
of user accounts using custom templates and domain-based set
Support for international user accounts is also provided thr
templates.

In addition, UserManager can be customized to perform specifi
task through APIs. This feature allows system administrators
override default functionalities to tailor UserManager to th
their sites.

NetInfoManager

The graphical tool for accessing and manipulating NetInfo da
has been dramatically improved. Administrative tasks are sim
allowing the system-administrator to dynamically restart Net
services, save and restore NetInfo databases, or join NetInf
hierarchies. The user interface has been improved to ensure
of-use throughout the application.

Searching in NetInfo data is more efficient with Multi-domain
regular expression search. Remote Server Management allows the
system-administrator to comprehensively manage resources fro
any part of the network.

SimpleNetworkStarter

The simple but powerful tool for setting up small networks o
NEXTSTEP computers has been extended to include NetInfo
Configuration across subnets and SNMP configurations. All
transactions are fully logged. The undo feature allows dynam
configuration changes.

Networking Commands

NetInfo data can be accessed and manipulated via a variety o
and extended set of UNIX utilities:

niutil: New options provide a full set of data-management featu
including resync, rename, and statistics options.

nigrep, nifind, and nireport complement the existing NetInfo
to provide full search and report capabilities in a multi-do
environment.

BSD 4.4 Networking

New gateway congestion and header prediction algorithms impr
overall network performance, especially in large networks th
bridges and routers.

In addition, IP Multi-Cast support has been added to provide
framework for multimedia networking.

OS

MACH 3.0

Core components of MACH 3.0 have been integrated into Release
to improve the robustness and performance of the operating s
especially under heavy load.

NEW FEATURES AND BENEFITS

Intel Enablement	**PCMCIA**	NEXTSTEP users can now take advantage of PCMCIA modems, SCSI adaptors, LAN cards, and wireless networking cards both for and desktop systems.
	ISA Plug & Play	On a system with the ISA Plug & Play BIOS, NEXTSTEP automatically configures ISA Plug & Play cards bypassing the need to deal w jumpers, switches, and configuration utilities.
	PCI Plug & Play	Similar to ISA Plug & Play, NEXTSTEP automatically configures PCI cards.
	Advance Power Management	By taking advantage of power saving features on systems that the APM BIOS, NEXTSTEP now operates efficiently on portable systems for an extended amount of time.
	720K Floppy	In addition to 1.44 megabyte floppy support, NEXTSTEP Release also supports 720k.
	More Drivers	NEXTSTEP Release 3.3 comes bundled with over 50 drivers to support a wide variety of peripheral cards and systems.
Installations & Upgrades	**Network Install**	User can now install NEXTSTEP through a network NFS server wi requiring a CD-ROM drive. System Administrators can also preconfigure a template server so that all systems built from inherit the same configurations. This greatly reduces the ove installing NEXTSTEP at large sites.
	Network Bulk Upgrade	The Upgrader application now enables system administrators t pre-configure "template servers" and propagate upgrades from these servers to designated NEXTSTEP systems. In effect, thi allows system administrators to "push" upgrades automaticall systems on the network without the need for any user interve
Learning Tools	**NEXTSTEP Quick Start**	By stepping through this small manual, users can quickly lea the basics of NEXTSTEP and be productive within 30 minutes.
	Power Tips & Documentation Roadmap	The power user's guide contains a comprehensive list of short cu and tips for the workspace and bundled applications.
		A new on-line & hardcopy roadmap helps novice users to easil and quickly navigate through existing documentation.
Internationalization	**Global Software**	NEXTSTEP can be customized at setup or installation time to provide global settings for keyboards, paper sizes, time zon This allows users to tailor their environment to specific loc Key globalization features include updates to Preferences.ap Configure.app.
	International Installation	Users can now select which language needs to be installed at "package" level. Instead of installing a specific language fo NEXTSTEP, users have a choice of installing specific languages each Installer package similar to support for different platforms. Users with limited disk space now have greater fle in the installation of packages.
		This feature applies to Upgrade Installation (e.g., BuildDisk), as well as the Installer

NEXTSTEP

NEXTSTEP includes all user environment system software, the end-user ordered applications, runtime portions of the object-oriented kits, system administration applications, and assorted other software.

NEXTSTEP includes English, French, German, Spanish, Swedish, and Italian user interfaces.

End-user documentation is available in English, French, and German.

The entire NEXTSTEP user environment comes on a single CD-ROM.

Installation of NEXTSTEP requires a minimum of 120 MB of available hard disk space.

To order, specify one of the following products:

NEXTSTEP for Intel Processors
NEXTSTEP for NeXT Computers

For additional information, call 1-800-TRY-NeXT

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