

UNIPLEX

Business Software

**Installation Guide & Supplemental
Release Notes**

Version 9.20

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<http://www.uniplex.com/Documents/InstallGuideV920-P.pdf>

Check the Uniplex web site for updates to Uniplex documentation and software.

<http://www.uniplex.com/ubs/download.html>

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Installation Guide and Supplemental Release Notes

Overview	1
Conventions and Terminology.....	1
Keyboard Keys to Use.....	2
Related Documentation.....	3
Setting Environment Variables.....	7
Distribution Media.....	7
Installing Uniplex	8
Pre-installation Procedure.....	8
CD Media.....	12
CD Access.....	12
CD Systems and Languages.....	13
CD Install.....	13
Tape Media.....	15
All Media.....	16
Post-installation and Upgrade Tasks	21
Installing the Additional Peripherals Pack	23
Upgrading Uniplex	34
Pre-upgrade Procedure.....	35
Upgrade Procedure.....	36
Upgrading from Version 9.00, 8.10, 8.00, 7.02 or 7.01.....	36
Upgrading an Existing Version 9.xx System.....	37
Invoking Uniplex	39
Installation Options	41
Generating a License Key.....	42
Checking Your Installation.....	45
Setting Up and Using Printers	47
Setting Up a Printer.....	47
Modify a Printer Interface.....	52
Delete a Printer Interface.....	52

Defining the Printer Defaults.....	53
Printing the On-line Documentation.....	54
Setting Up Mailing Lists and External Mailboxes.....	56
Setting Up Mailing Lists.....	56
Set Up Real Names for Use with Mail.....	58
Editing the uniplex.alias File.....	59
Enabling External Mailboxes.....	60
Disabling External Mailboxes.....	62
POP3 or IMAP?.....	63
Setting Up POP3 Mail Clients.....	63
Setting Up IMAP Mail Clients.....	64
Setting Up Microsoft Outlook as a POP3 or IMAP Client.....	64
Setting Up LDAP Client Access.....	66
Setting Up the Demonstration Database.....	67
Appendix A - Disk Space Requirements.....	68
Upgrade Considerations.....	70
Growth Considerations.....	71
Appendix B - Device Names.....	73
Appendix C - Environment Variables.....	75
Appendix D - Troubleshooting.....	77
Messages during Installation or Upgrade.....	78
Messages from CD Media.....	81
File Names on the CD.....	81
Using a Language not Supplied.....	81
System Names.....	82
Messages when Invoking Uniplex.....	83
Messages when Running Uniplex Windows.....	87
Appendix E - Generic Release Note Information.....	89
Known Generic Problems.....	89

Using VT200-derived Terminals with Uniplex.....	89
Uniplex Windows.....	89
Uniplex Windows on the Common Desktop Environment (CDE) Desktop.....	89
Error Messages on Invoking Terminal.....	90
Selecting the Correct Server Type.....	90
Uniplex Windows Server Capabilities.....	92
Appendix F - Compaq Release Note Supplement.....	93
Port Details.....	93
Appendix G - HP Release Note Supplement.....	95
Port Details.....	95
Known Port-specific Problems.....	96
Appendix H - IBM Release Note Supplement.....	97
Port Details.....	97
Known Port-specific Problems.....	98
Tape Upgrade.....	98
Uniplex Windows Shutdown.....	98
Uniplex Windows under AIX 4.3.....	98
Appendix I - Linux Release Note Supplement.....	99
Port Details.....	99
Known Port-specific Problems.....	100
File Manager Restrictions.....	100
iBCS Compatibility Mode.....	100
PS1 Setting in Bash shell.....	100
Installing from Linux Console.....	101
Appendix J - SCO OpenServer Release Note Supplement.....	103
Port Details.....	103
Known Port-specific Problems.....	104
SCO UDK Required.....	104
Line Draw Problems.....	104
File Manager Problem under Xterm.....	105

Appendix K - Sequent Release Note Supplement	107
Port Details.....	107
Known Port-specific Problems.....	108
Alarms and Mail Notifications in DYNIX/ptx 4.4.1.....	108
Appendix L - Siemens Nixdorf Release Note Supplement	109
Port Details.....	109
Known Port-specific Problems.....	110
Reliant Unix 5.44 Patch Required.....	110
Appendix M - Sun SPARC Release Note Supplement	111
Port Details.....	111
Known Port-specific Problems.....	112
Running Uniplex Windows.....	112
Error Message when Opening Uniplex Windows.....	112
Appendix N - NCR 3000 Release Note Supplement	113
Port Details.....	113
Known Port-specific Problems.....	113
Datalinks.....	113

Overview

This guide provides installation directions for Uniplex Business Software (UBS) Version 9.20. Procedures are included to:

- Install UBS V9.20
- Upgrade UBS V9.xx, 8.10, 8.00, 7.02 or 7.01 to V9.20

IMPORTANT. Appendices to this manual contain a generic Release Note Supplement (Appendix E) plus a specific Release Note Supplement for each separate port (Appendices F and following). These supplementary notes can include important information about the installation and operation of Uniplex on each specific system. Please read the appropriate Release Note Supplements before continuing with this guide. These appendices provide information that became available after the on-line Release Notes were prepared.

You should review the on-line Release Notes for V9.20 as soon as you complete the UBS installation.

Conventions and Terminology

This release of Uniplex is referred to throughout the documentation as Uniplex Version 9.20. Previous releases of Uniplex are referred to as Version 9.xx, Version 8.10, Version 8.00, Version 7.02 or Version 7.01.

Where dialog with the Unix system is shown (in bold print), the syntax used is always that of the Bourne Shell interpreter (*/bin/sh*) unless otherwise stated.

Since Uniplex may be installed almost anywhere on the system, reference to Uniplex files does not give full path names. System files are shown as *\$Unode/filename*. On most systems this is */usr/UAP/filename*; */usr* is the suggested installation directory. However, be aware that this may not be the case. Files referred to as local are in the user's *\$HOME/UAP* directory and are specific to that individual user.

Keyboard Keys to Use

When you install or upgrade Uniplex use the following keys, unless otherwise specified:

Key	Notes
Return	Use this key after entering each piece of information. The Return key may be labeled Enter or indicated by the symbol ↵.
Backspace	Use this key to correct the last character entered.
Interrupt	Use the interrupt key for your system if you want to abort the installation program.

The **Backspace** key and the **Interrupt** key are dependent on your Unix set-up. They are usually one of:

- **Backspace**, **Rubout**, or **Ctrl h** for *Backspace*.
- **Ctrl **, **Ctrl c**, **Del**, or **Rubout** for *Interrupt*.

Related Documentation

The UBS V9.20 printed documentation set consists of:

- Uniplex II Plus User Guide (three volumes)
- Advanced Office System User Guide
- Advanced Graphics System User Guide

The CD distribution of Uniplex V9.20 contains a copy of all the current technical, configuration, and tools guides, quick reference and shortcut information, and the main product release notes in Adobe PDF (Portable Document Format). A copy of Adobe Acrobat Reader can be downloaded free of charge for most operating systems from the Adobe.com Web site.

Release notes are included for both V8.10 and V9.xx to assist those customers who are upgrading from prior releases.

Every Uniplex installation contains an archive of documentation in Uniplex WP format (referred to as the 'on-line documentation') which is accessible from the File Manager. Printing hard copies of on-line documents is described later in this guide at *Printing the On-line Documentation* which is in the *Setting Up and Using Printers* section.

To view the on-line documentation:

- 1 Select **System Admin.** from the Uniplex Main Menu.
- 2 Select **On-line Documentation** from the System Administration Menu.

Uniplex displays the On-line Documentation screen and prompts for the following information:

Document	Press any key to open a pop-up list of all available documentation and select the appropriate document name.
Action	Press Spacebar to scroll to Read with Word Processor .

- 3 Press **F1** or **Esc e** to confirm.

Uniplex will start the Word Processor and display the first page of the document. Uniplex redisplay the On-line Documentation screen when you have finished reading the on-line document.

- 4 Press **F4** or **Esc q**.

The On-line Documentation screen provides the following documents:

A Printer Test Document. This document contains samples of the styles, effects, fonts, etc. used in the on-line documentation. Print and read this document before printing other on-line documentation to ensure an appropriate printer and printer definition are being used.

Device Configuration Guide. How to configure terminals, printers, and Uniplex Windows files.

Form-Building Tools Guide. How to use the form building tools to create and build customized forms.

Quick Reference Pages (print in Landscape format). These pages supplement the main user manuals with a comprehensive list of commands for each product module. This version prints the reference pages in landscape format.

Quick Reference Pages (print in Portrait format). These pages supplement the main user manuals with a comprehensive list of commands for each product module. This version prints the reference pages in portrait format.

Release Notes, Version: 8.10. The complete release notes for Version 8.10. Provided for those users upgrading from an old release.

Release Notes, Version: 9.00. The complete release notes for Version 9.00.

Release Notes, Version: 9.10. The complete release notes for Version 9.00.

Release Notes, Version: 9.20. The complete release notes for Version 9.20.

Shortcut Keys Keystrip (print in Landscape format). A one page summary of the most important system commands.

Technical Guide. How to configure and administer Uniplex to meet the requirements of a specific site.

Uniplex Demonstration script - Personal Productivity. A demonstration guide to Version 8.10 personal productivity tools.

Uniplex Demonstration cue cards. A summary of the steps of each of the three complete demonstrations.

Uniplex Demonstration - summary of files used. A summary of the files used by the standard demonstrations.

Uniplex Demonstration script - Groupware. A demonstration guide to Version 8.10 group productivity features including the calendar and scheduler, electronic mail, using e-mail with the Internet, and workflow features.

Uniplex Demonstration script - Upgrade. A complete demonstration guide showing the major changes introduced in Version 8.10.

V9.20 Welcome Screen. The welcome message shown on first invocation of a new installation or upgrade which contains a concise summary of new product features. Provided for those users upgrading from a current release.

Additional documentation files will be installed if all or part of the APP terminal and printer definitions are optionally added to the system (see *Installing the Additional Peripherals Pack* later in this guide). These files include the following:

APP Release Notes. Complete release notes for the Additional Peripherals Pack including printer and terminal driver conventions and lists of supported devices with specifications for each of them.

Supported Printer Specification: INDEX. A list of all supported printers showing font options, driver names, and the name of the Supported Printer Specification (SPS) file for each printer.

Supported Printer Specification: SUMMARY. A summary of the main features available in Uniplex for each supported printer.

Supported Printer Specification: spsxxx. An SPS file is provided for each printer installed from the APP. This file contains a detailed description of the functions supported in Uniplex for that printer. The SPS number corresponding to a specific printer is found in the *Supported Printer Specification: INDEX* document or in the appendix to the *APP Release Notes*.

Supported Terminal Specification: INDEX. A list of all supported terminals showing driver names and the name of the Supported Terminal Specification (STS) file for each terminal.

Supported Terminal Specification: stsxx. An STS file is provided for each terminal installed from the APP. This file contains a detailed description of the functions supported in Uniplex for that terminal. The STS number corresponding to a specific terminal is found in the *Supported Terminal Specification: INDEX* document or in the appendix to the *APP Release Notes*.

Setting Environment Variables

While installing or upgrading, you may need to set environment variables. The way to do this depends on the operating system shell you use.

If you are using the Bourne shell, use the syntax:

```
name=value  
export name
```

For example, to set your terminal type, enter:

```
TERM=vt100  
export TERM
```

If you are using the C-shell, use the syntax:

```
setenv name value
```

For example, to set your terminal type, enter:

```
setenv TERM vt100
```

Throughout the rest of this guide, all examples for setting environment variables show the Bourne shell syntax.

Distribution Media

Uniplex is delivered either on a single CD or as a *media set*. The media set consists of three tapes each carrying a *media label* containing installation information. The tapes are labeled as follows:

- **BINARY**. The binary files for each module.
- **TEXT**. The machine-independent ASCII files.
- **APP**. The Additional Peripherals Pack (APP 5.1) device drivers.

Installing Uniplex

This section explains how to install Uniplex modules including the pre-installation checks. The installable modules are:

- Uniplex II Plus (BASE) (includes Uniplex Windows programs)
- Advanced Graphics System (AGS) (licensed as part of BASE)
- Advanced Office System (AOS)
- Filters/Converters (UDA)
- Datalinks (DL)
- Additional Dictionary Pack (ADP - referred to on-screen as DICT)
- Additional Peripherals Pack (APP)

You should read and understand the pre-installation and installation procedures before continuing.

Pre-installation Procedure

This section describes the checks and tasks you should complete before installing the Uniplex software.

The first thing you should do is to follow the instructions in the License Agreement Folder included with the software media to obtain the check digit numbers you will need in order to license the software (see the later section *Generating a License Key*). You can then carry out the pre-installation procedure as follows:

- 1 Log in as a superuser or root.
- 2 Ensure that you have sufficient disk space (see Appendix A).

- 3 Check that the environment variable PATH for your user id (root) is not set to any directory which includes the name UAP.
- 4 Check that your terminal name is set and recognized by Uniplex to obtain the best screen display (see Appendix C).
- 5 You can change:
 - The front-end script name by setting the environment variable, UNIPLEX_NAME. The front-end script is the command to invoke Uniplex; the default is **uniplex**.
 - The front-end script location by setting the environment variable, UNIPLEX_DIR. The default is **/usr/bin**.

See Appendix C for more details on setting environment variables.

- 6 Add the Uniplex postmaster login **u-mailer** to the /etc/passwd file if you are installing the Advanced Office System (see the system administration manual for your computer operating system).
 - ✍ *Use an alternative, such as umailer, if you experience difficulties adding the u-mailer login. You need to add the POSTIE string in the u-mail.rc file to inform Mail that the default postmaster name u-mailer has been changed once Advanced Office System is installed (see the chapter Configuring and Administering Electronic Mail in the on-line Technical Guide).*
- 7 Move to the location where you want to place the Uniplex UAP directory. The recommended directory location is /usr; however, it can be any directory which has sufficient disk space, **provided** it is not the actual home directory of a user and **especially not** root's home directory '/'.

- 8 Ensure that there is no UAP directory in this or the parent directory, for example, use the command:

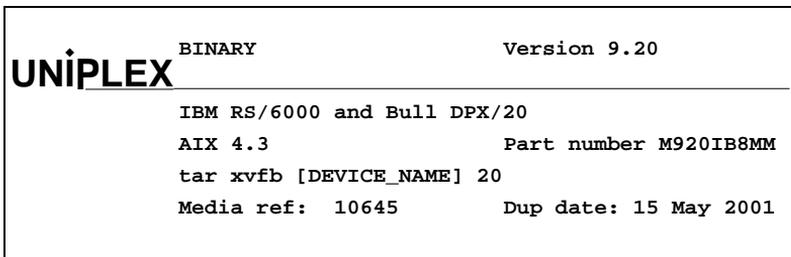
```
ls -d UAP ../UAP
```

which should report something similar to the following:

```
UAP not found
../UAP not found
```

If there is a "../UAP" containing the three files *uniplex.menu*, *files_list*, and *bin/uniplex*, the install will assume that you are upgrading an existing installation and will attempt to upgrade the ../UAP area rather than install the ./UAP one

- 9 If you ordered Uniplex on magnetic media, the label will look something like this:



The label contains the following information:

- | | |
|---------------------|--|
| BINARY | The name of the volume of the media set (see <i>Distribution Media</i> above). |
| Version 9.20 | The Uniplex release number. |
| IBM RS/6000 | The computer brand for which this version of UBS was designed. The computer operating system for |

AIX 4.3	which this version of UBS was designed.
tar xvfb	The normal command to load Uniplex onto this type of machine.
Media ref	The internal Uniplex media reference number.
Dup date	The date this particular tape was created.

CD Media

Unless you downloaded Uniplex from the web site, you will have been supplied with Uniplex on a CD-ROM. Appendices F onwards are machine-specific Release Note Supplement information for all machines supported on the CD. These appendices supplement the on-line *Release Notes* and describe any non-standard installation or operational considerations.

CD Access

Load the Uniplex CD as a mounted file system before performing any of the later steps. Use the mount command appropriate to your system unless your system auto-mounts CDs. This will be in the form:

```
mount <mount options> CD_device_name CD_path
```

For example:

```
mkdir /cdrom  
mount -v cdrfs /dev/cd0 /cdrom
```

or

```
mount -F cdfs /dev/cd0 /cdrom
```

The examples below assume that the CD is mounted as **/cdrom**. Specify the appropriate directory name in each command if you are using a different directory.

Unmount the CD using the following command when you have finished the installation:

```
umount /cdrom
```

CD Systems and Languages

You will need to supply a one-word code for each of the following with the command used to extract data from the CD:

language The language in which Uniplex will be run:

Language	Description
----------	-------------

<code>american</code>	American English
<code>english</code>	British English
<code>german</code>	German
<code>-</code>	Other Languages (hyphen). See the section <i>CD Media: Using a Language not Supplied</i> which is in Appendix D.

system The system on which you are installing. Find the correct CD code for your system from the machine-specific Release Note Supplements in Appendices F onwards.

CD Install

✎ *Completely remove the UAP directory, if created, before installing Uniplex again if you do not complete the installation procedure.*

1 Perform the pre-installation procedure described earlier.

You should now be the root user in the directory in which you will install Uniplex.

2 Install from the CD using the command:

```
CD_path/install.sh CD_path language system
```

✎ *The full pathname of the file system where the CD was mounted is used both to fully qualify the **install.sh** bootstrap command and to tell that command the location of the file system.*

For example:

```
/cdrom/install.sh /cdrom german ibm
```

This will extract the Uniplex BINARY and TEXT media from the CD and then automatically invoke an install program.

✎ *Some systems remap lower-case filenames to upper-case and you could receive an error message in the following format:*

```
sh: /cdrom/install.sh: Command not found
```

Simply replace `install.sh` with `INSTALL.SH` if this occurs.

A further explanation of this issue is found in the section, *Messages from CD Media*, in Appendix D.

Now skip over the *Tape Media* section and proceed to the *All Media* section.

Tape Media

This section explains how to install Uniplex software from tape.

- ✎ *You should completely remove the UAP directory, if created, before installing Uniplex again if you do not complete the installation procedure.*

To install Uniplex:

- 1 Perform the pre-installation procedure described earlier.

You should now be the root user in the directory in which you will install Uniplex.

- 2 Load the BINARY tape into the appropriate device.
- 3 Copy the software to the current directory by entering the load command written on the media label. Replace [DEVICE_NAME] with the name appropriate to your system, for example:

```
tar xvfb /dev/rmt/0m 20
```

- ✎ *Uniplex shows a typical tar command on the tape label. The command shown may start "tar -x". Omit the hyphen if this is not recognized on your system.*

See Appendix B for more details.

- 4 Repeat steps 2 and 3 for the TEXT media.
- 5 Enter `uap/install` to install the Uniplex software.

Go on to the section, *All Media*, after performing the above steps.

All Media

Uniplex displays the following message after you enter the appropriate command for the type of media you have:

```
                Welcome to Uniplex Business Software

Please wait, Uniplex is creating necessary local configuration
Please wait, Uniplex is checking your system and utilities...
```

Uniplex displays the copyright notices when the checks are finished.

- 1 Press **Return** after each copyright notice to continue the installation.

Uniplex displays the following:

```
The following modules are already installed:      NONE
Which Uniplex product do you wish to install?

1 - Uniplex Business Software
2 - Uniplex Mail

Enter choice (default is 1):
```

- 2 Do one of the following:

- Press **Return** to install the full Uniplex Business Software suite.
- Enter 2 to install Uniplex Mail.

The Uniplex Mail option installs the BASE and AOS modules only and, once installed, presents a Main menu that is limited to Mail functions.

- ✎ ***You must select Option 2 - Uniplex Mail if you are licensed for the Mail or Mail+WP versions of Uniplex or the wrong menu tree will be installed and your system will not run correctly.***

Uniplex displays the following if you choose to install the full Uniplex Business Software suite:

```
Which modules do you want to install:
1 - All those available except the Additional Dictionary Pack
2 - All those available
3 - Selected modules only
Enter choice (default is 1):
```

- 3 The Additional Dictionary Pack (ADP) requires a significant amount of disk space, therefore only install it if you really need to at this point. You can always install it later using the Upgrade option on the Installation Options menu.

The Converters (UDA) also require considerable disk space. Select Option 3 to avoid installing them if they are not required.

Do one of the following:

- Press **Return** to install all modules except the Additional Dictionary Pack (ADP).
 - Type 2 and press **Return** to install all available modules.
 - Type 3 and press **Return** to install selected modules only.
- ✍ *You can always install a module later if you choose not to install some modules now. See the later section, [Upgrading Uniplex](#).*

The installation program checks the operating system utility programs to ensure they exist and work correctly. Uniplex displays a message appropriate to the option you selected when the checks are finished.

A separate prompt appears for each optional module if you chose to install selected modules only, or are upgrading, for example:

```
Uniplex Advanced Office ("AOS")
Install this module?

1 - Yes
2 - No

Enter choice (default is 1):
```

✎ *The BASE module is not optional and is always installed.*

- 4 Press **Return** at each prompt to select a module for installation; otherwise, type 2 and press **Return**.

Uniplex may display a message indicating that certain files are being removed as they are not required by the modules you chose to install, for example:

```
The following modules are being installed:  BASE, AOS, AGS
Removing installation files not required by these modules...

This may take some time...
Please wait, Uniplex is unpacking any packed files...
.....
```

You will see a line or two of dots as the files are unpacked.

Uniplex installs the chosen modules, displaying messages where appropriate, informing you what tasks are being performed.

You may see the following messages if you did not carry out all the pre-installation tasks completely:

```
WARNING: Uniplex is currently configured to pick up external mail addressed
to a special user with the name: "u-mailer"
You do not have an entry of this name in your "/etc/passwd" file.
This means that some features of Uniplex Mail will not work.
You should therefore either:

a) add this name after installation has finished, or
b) update or add the POSTIE field in your "UAP/umail.rc" file.
```

- 5 Press **Return** when prompted to continue the installation process if you see the above message.
- 6 Uniplex displays the following message (if this is an upgrade you do not see the message) when the module installation is complete:

```
A small set of Uniplex device drivers has been installed.
The Uniplex APP module contains drivers for more devices,
which are listed in the Release Notes.
You can install drivers from the APP module at any time.
Do you want to install now,
1 - Yes
2 - No
```

Press **Return** if you want to install device drivers; otherwise, enter 2.

- 7a **Installing from TAPE.** You are prompted to load the APP media and press **Return** when ready if you choose to install device drivers at this point. The Install Add-on form then appears. See the later section, *Installing the Additional Peripherals Pack*, for details on this form and how to install the printer drivers.
- 7b **Installing from CD.** Press **Return** when prompted to load the APP media if you choose to install device drivers during the install process. Press **F1** (or **Esc e**) when the Install Add-on form appears, since the command to extract the APP drivers from the CD will be preset on the form.

- 8 The Create a New Printer form is displayed unless you are upgrading. See the later section, *Setting up and Using Printers*, for details on how to complete this form.

Uniplex displays the License Key Creation form when you have finished creating printers. See the later section, *Generating a License Key*, for details of how to complete the form.

- ✎ *Neither the License Key Creation form nor the printer configuration forms appear if your terminal is not supported. Uniplex displays a warning message if your terminal type is not supported.*

Post-installation and Upgrade Tasks

After installing or upgrading Uniplex, there are a number of things you should now do:

- Configure your printers if you have not already done so during install. See the later section *Setting Up and Using Printers* for details.
- Add the appropriate licenses if you have not already done so during install or upgrade. See the subsection *Generating a License Key* in the later section *Installation Options* for details.
- Print out (for reference) and read the on-line *Release Notes* and the *Uniplex Technical Guide*. See the subsection *Printing the On-line Documentation* in the later section *Setting Up and Using Printers* for details.
- Set up a cron job for regular management of Uniplex-related files. See the section *System Administrator Responsibilities* in the on-line *Uniplex Technical Guide* for details.
- Run the **ongo.link** command if you are upgrading from a system that included the onGO Character Clients AND If this system has the onGO server or Motif clients on it. See the **ongo.link** command in the appendix *Program Usage and Invocation* in the on-line *Uniplex Technical Guide* for details.
- You should set up mailing lists and enable external mail pick up if you have installed AOS. See the later section *Setting Up Mailing Lists and External Mailboxes*.
- In order to use Uniplex IMAP or POP3 servers, it is necessary to restart the Internet Daemon (inetd or xinetd). This can be done by re-booting the system, by using a system-specific command (e.g. for AIX, use the command: `refresh -s inetd`), or by signalling the existing inetd process. To determine the process id of the inetd process, use the command: `ps -ef | grep inetd`. To signal the process, use the command: `kill -1 <process-id>`.

- You will probably need to define routes if you exchange mail with external systems. See the section *Configuring and Administering Electronic Mail* in the on-line *Technical Guide*.
- You may have useful information in the Folios system which you need to preserve if you are upgrading from an earlier version of Uniplex, Run the following commands to transfer this information into the File Manager database:

Command	Notes
<code>/usr/bin/uniplex -run ufmbuild -u</code>	Transfers data from the Folios system to the Index database.
<code>/usr/bin/uniplex -run ufmscan -r -a</code>	Tidies up the Index database in case some of the entries in the Folios database were for files that no longer exist.
<code>rm /usr/UAP/.ufo*</code>	Removes the Folios database (specify the \$Unode location if not /usr/UAP).

- ✎ *These commands can take a long time to run if you have a large Folios database. Therefore, it is usually more convenient to run them using the front-end script **-run** mechanism, rather than from a shell escape from Uniplex.*
- ✎ *Use the name specified by **UNIPLEX_NAME** or **UNIPLEX_DIR** instead of **/usr/bin/uniplex** if you use those environment variables to specify an alternate front-end script name.*

Installing the Additional Peripherals Pack

This section explains how to install the Uniplex APP (Additional Peripherals Pack) module, including the pre-installation checks. The following files in the main UAP area may be modified depending on the options selected: Pcap, Gcap, Fcap, Tcap, uniplex.cmd, terminfo, and termcap; additionally, files and directories may be added to the UAP/documents directory. Read the screen messages to see which files are actually updated.

✎ *Do not use this procedure to install any of the main modules.*

Go to Step 6 if you are installing the APP as part of the main installation, otherwise, start the APP installation procedure at Step 1.

To install the APP module:

- 1 Log in as a superuser or root.
- 2 Check that you have sufficient disk space. See Appendix A for details.
- 3 Invoke Uniplex as usual. Uniplex displays the Uniplex Main menu.
- 4 Select **System Admin.** from the Uniplex Main menu.
- 5 Select **Software Installation** from the System Administration menu.
- 6 Select **Install Independent add-on Module** from the Installation Options menu.

Uniplex displays the Install Add-on form:

```

Enter download command as shown on distribution media label.

ENTER DETAILS          I N S T A L L   A D D - O N

  This screen lets you install independent "add on" modules,
  such as the Additional Peripheral Pack ("APP").

  The installation process will transfer the files on the
  distribution media to a temporary area in the
  UNIPLEX directory, then install the software as appropriate.
  Any errors during installation will be reported. After
  successful installation, the temporary area will be removed.

  Please refer to supplied installation notes, and ensure that
  sufficient disk space is available to carry out this update.

Download command:      [ _____ ]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record

```

7 Load the media volume containing the APP into the appropriate device.

8a Type the following extract media command in the **Download command** field if you are installing from the CD:

```
/cdrom/install.sh -x /cdrom APP
```

8b Type the download command which is written on the media label in the **Download command** field if you are installing from tape. Replace [DEVICE_NAME] with the name appropriate to your system (see Appendix B for details). For example:

```
cpio -icvdumK </dev/rct0
```

9 Press either **F1** or **Esc e**.

- 10 Uniplex prompts you to enter successive volumes with the following message if you have more than one tape:

```
Download incomplete. Please load next volume and press RETURN
or press * and RETURN to abort this installation process
```

- 11 Uniplex displays the Peripheral Installation form once all the files have been downloaded:

```
Press SPACEBAR to select options

ENTER DETAILS          PERIPHERAL INSTALLATION

Uniplex Additional Peripheral Pack Version 5.1

Install terminals..... [YES]

Install printers..... [YES]

Install Documentation... [YES]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
```

You can choose to install terminals, printers, and documentation in any combination. Use the arrow keys to move the cursor to the item you want to set and press **Spacebar** to select either **YES** or **NO**.

- 12 Press **F1** when you have finished selecting the item(s) you require. Uniplex displays the relevant **TERMINAL**, **PRINTER**, or **DOCUMENTATION** installation form. The available devices that may be installed are listed if you have selected terminal or printer installation.

Uniplex displays the Terminal Installation screen if you specified that you want to install terminals, for example:

```
ENTER DETAILS          TERMINAL INSTALLATION

Select Required Terminals:

Install Command Language:  english

      Terminal Name      TERM entries
[WYSE60   Wyse 60        wyse60, wy60_____]

Terminal Selection Complete? [NO_]

List of 0  selection(s) made so far:

[_____]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
```

- 13 Press **Spacebar** to scroll through to the required option or press **F5** to get a pop-up list of the devices. Press **F1** once you have made your choice. Uniplex records your choice and redisplay the form. The list of available options does not include the previously selected device. Continue selecting the devices you require, one at a time, until you have selected them all.
- 14 Move to the selected devices field at the bottom of the form and either press **Spacebar** to scroll through the selections or press **F5** to display a pop-up list of options to display the list of devices already selected.
- 15 Make your selections, then move to the **Terminal Selection Complete** field and press **Spacebar** to select **YES**, then press **F1**; the device currently displayed for selection is not included.

The configuration files to be changed are copied into *\$Unode/APP.save* and the standard COMMANDS sections are installed into *uniplex.cmd*. You are prompted to press **Return** before the next screen is displayed so that you can read the messages output by the install process.

- 16 You are prompted to select the type of keyboard used for each terminal selected for installation, for example:

```
Select the type of keyboard used on your terminals

ENTER DETAILS          APP Terminal Installation Screen

Command Language is  ENGLISH

Terminal is WYSE60

Keyboard Types available:

[ENHANCEDPC - Enhanced PC-Style Keyboard_____]

Keyboard Languages   [FRENCH_____]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
```

- 17 Select the keyboard type that is most common on your site from the list supplied in the **Keyboard Types available** field.
- 18 Select the keyboard language that is the most common on your site from the list supplied in the **Keyboard Languages** field.
- 19 Press **F1** when you have made your selections; the terminal driver is installed. Messages are displayed indicating the progress of the terminal's installation. Press **Return** to continue.

- 20 The configuration files are indexed and the terminal entries are compiled for use by Uniplex once all the selected terminals have been installed. You need to exit and re-invoke Uniplex for them to take effect. Compiled entries for site-specific custom terminals or for older terminals which are not included in this APP are not modified.

Read the Supported Terminal Specification (STS) files that correspond to the terminals you have installed and check that the terminals are set up as detailed within the STS to ensure their correct operation within the Uniplex environment.

- ✍ *The STS files are installed as part of the APP on-line documentation and can be found using the On-line Documentation option on the System Administration menu. Each STS details the terminal facilities supported by Uniplex and any non-standard ways of using the terminal with the Uniplex applications.*
- ✍ *Further information about accessing the APP portion of the on-line documentation is found at the beginning of this guide at the end of Related Documentation which is in the Overview section.*

The configuration for your existing terminal will switch from the Uniplex default to a more sophisticated entry compiled from the APP if you are using a terminal type that is on the APP. This may cause display problems as the default entry is likely to be slightly different than the APP entry. It may be possible to correct the situation by altering the terminal set-up according to its STS should this occur.

The Printer Manufacturer List screen is displayed once the terminals are installed if you specified that additional printers are to be installed. It lists all supported printer manufacturers, for example:

```
Type yes to select manufacturer

ENTER DETAILS          PRINTER MANUFACTURER LIST          Page 1/2

Select Printer Manufacturer

Manufacturer:

Hewlett Packard..... [no_]
Canon..... [no_]
IBM..... [no_]
DEC..... [no_]

Type F1 when selection complete.
(Use DOWNARROW to select other printer Manufacturers)

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
```

- 21 Move the cursor to the appropriate field and press **Spacebar** to scroll to **yes** to select the manufacturer of the printer to be installed.
 - ✎ Press **Down Arrow** until a new list of manufacturers is displayed if the required manufacturer is not shown on the current screen. The cursor returns to the first field if the list of manufacturers occupies only one screen.
- 22 Press **F1** once you have selected all required printer manufacturers. A list of the selected manufacturers is displayed. Press * **Return** to return to the Printer Manufacturer List screen or press **Return** to continue.

A list of printer models is displayed for each manufacturer selected, for example:

```

Type yes to select printer

ENTER DETAILS          HEWLETT  PACKARD  PRINTERS  LIST          Page 1/2

Select Printer

Laserjet Jet II (hpII)..... [no_]
Laserjet Jet IID (hpIID)..... [no_]
Laserjet Jet IIP (hpIIP)..... [no_]
Laserjet Jet III (hpIII)..... [no_]
Laserjet Jet IIID (hpIIID)..... [no_]
Laserjet Jet IIIP (hpIIIP)..... [no_]
Laserjet Jet IIISi (hpIIISi)..... [no_]
Laserjet Jet 4 (hpIV)..... [no_]

Type F1 when selection complete.
(Use DOWNARROW to select other font cartridges)

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record

```

23 Move the cursor to the appropriate field and press **Spacebar** to scroll to **yes** to select a printer.

✎ Press **Down Arrow** until a new list of printers is displayed if the required printer is not shown on the current screen. The cursor returns to the first field if the list of printers occupies only one screen.

24 Press **F1** once all the printers have been selected. A list of selected printers is displayed. Press *** Return** to return to the Printers List screen or press **Return** to continue.

A list of font options is displayed for each printer model selected, for example:

ENTER DETAILS	HEWLETT	PACKARD	FONT	OPTIONS	Page 1/2
Select Font Option for [hpII _____]					
No Font Option - Internal Fonts Only.....	[no_]				
S2 Font Cartridge.....	[no_]				
Great Start Font Cartridge.....	[no_]				
Pro-Collection Font Cartridge (using ASCII character set).....	[no_]				
Pro-Collection Font Cartridge (using LEGAL character set).....	[no_]				
MicroSoft Font Cartridge.....	[no_]				
Word Perfect Font Cartridge.....	[no_]				
C2109B - Deskjet Global Text Font Cartridge.....	[no_]				
C2109C - Deskjet Garamond Font Cartridge	[no_]				
C2109D - Dom Casual Cartridge.....	[no_]				
C2109E - Deskjet Brush Cartridge.....	[no_]				
Type F1 when selection complete. (Use DOWNARROW to select other font cartridges)					
F1=Enter	F2=Redraw	F3>Edit	F4=Quit	F5=Expand	F6>Record

25 Move the cursor to the appropriate field and press **Spacebar** to scroll to **yes** to select a font option.

✎ Press **Down Arrow** until a new list of font options is displayed if the required font option is not shown on the current screen. The cursor returns to the first field if there are no more font options.

26 Press **F1** once you have made all your selections.

The selected model and cartridge combination is checked for validity and any errors are reported. Press * **Return** to return to the Font Option screen or press **Return** to continue.

The drivers are installed once all the selections have been made for a printer manufacturer.

The following form appears if you choose to install the on-line documentation:

```

Select YES or NO

ENTER DETAILS          PERIPHERAL  DOCUMENTATION  INSTALLATION

Confirm Installation of all documentation
associated with this APP.....[YES]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
  
```

- ✎ *The APP documentation contains useful reference information. However, it is bulky and if you wish to save on disk space you can omit its installation. You can install the documentation at a later date by running the APP install again and specifying a documentation install only.*
- ✎ *A detailed description of the APP portion of the on-line documentation is found at the beginning of this guide at the end of Related Documentation which is in the Overview section.*

27 The configuration files are indexed and the printer entries are compiled for use by Uniplex once all the selected printers have been installed. You need to exit and re-invoke Uniplex for them to take effect. Compiled entries for site-specific custom printers or for older printers which are not included in this APP are not modified.

Read the Supported Printer Specification (SPS) files that correspond to the printers you have installed and check that the printers are set up as detailed within the SPS to ensure their correct operation within the Uniplex environment.

- ✎ *The SPS files are installed as part of the APP on-line documentation and can be found using the On-line Documentation option on the System Administration menu. Each SPS details the printer facilities supported by Uniplex and any non-standard ways of using the printer with the Uniplex applications.*
 - ✎ *Further information about accessing the APP portion of the on-line documentation is found at the beginning of this guide at the end of Related Documentation which is in the Overview section.*
- 28 Press **F1** to confirm that you wish to install the on-line documentation associated with this release of the APP. The documentation files are then installed into the **UAP/documents** directory. These files can be accessed via the *On-line Documentation* option on the System Administration menu.
- ✎ *Read the remarks lines at the start of the files before attempting to print any of the documents.*

Upgrading Uniplex

This section explains how to upgrade to Uniplex Version 9.20 from Uniplex Version 9.00, 8.10, 8.00, 7.02, or 7.01.

- ✎ *You must first upgrade to Uniplex Version 7.01 or above if you are upgrading from an earlier version. This is often not possible. Alternatively, load Uniplex V9.20 in a different area of the system as a new installation, then move any individual configuration entries from the old installation to the new V9.20 installation. See the on-line V9.20 Release Notes to review configuration file format changes. See the white paper UBS V7-V9 Upgrade Procedures (available on the Uniplex Web site, from any Uniplex sales representative, or from Uniplex Support) or call Uniplex Support for more information.*

UBS V9.20 does not have special upgrade media, unlike older releases. The upgrade procedure involves doing one of the following:

- Upgrade from Uniplex Version 9.00, 8.10, 8.00, 7.02, or 7.01.
 - ✎ *You cannot upgrade automatically from Version 7.01 or Version 7.02 if you have Uniplex Windows installed and you are using the IXI X.desktop module unless you want to end use of the IXI desktop product. Call Uniplex Support for assistance before beginning any upgrade procedure. The X.desktop module is not generally available for current operating system releases.*
- Upgrade an existing Uniplex V9.20 system on which not all modules were initially installed.

You should read and understand the pre-upgrade and upgrade procedures before continuing.

Pre-upgrade Procedure

This section describes the checks you should complete before upgrading your Uniplex software.

- 1 Log in as a superuser or root.
- 2 Check you have:
 - A complete backup including the entire UAP directory hierarchy.
 - Made Uniplex completely inactive including all processes. Ensure in particular that the `uclock` and `uxspawn` programs are not running. For example, use the command `ps` to determine the process number, then `kill -9 process_number` to shut them down.
 - Set all required environment variables (see Appendix C for details).
- 3 Check that the environment variable `PATH` is not set to any directory which includes the name `UAP` and that `TERM` is set to a value that works with the current version of Uniplex if you are upgrading from an older version.
- 4 Check that you have sufficient disk space to download the software. See Appendix A *Disk Space Requirements* for details.

The software can be downloaded onto any file system. You can release disk space on an installed Version 8.xx to 9.00 system by removing many of the Uniplex binary files in the `UAP/bin` directory *that are being recreated from the V9.20 Binary Tape*, such as the converters. DO NOT remove `UAP/bin/uniplex` or `hyusbuid`. Do not remove `ucmail`, `ucdiary`, `ucm_migrate`, `unagent`, or `ucc_migrate` if you intend to continue using the pre-Version 9.20 onGO Office character clients.

Alternatively, you can download the new software onto a different file system from which the Upgrade program will copy necessary files. You must preset the **Uredirect** environment variable as described in Appendix C *Environment Variables* to do this.

Upgrade Procedure

Upgrading from Version 9.00, 8.10, 8.00, 7.02, or 7.01

Upgrading from Tape

- 1 Log in as a superuser or root.
- 2 Move to the existing UAP directory and extract the files from both the BINARY and TEXT tapes, for example:

```
cd /usr/UAP
tar xvf /dev/rmt0
```

- 3 Type `UAP/install`.

Uniplex displays the copyright notices and then prompts you to make sure that you have made a backup of your system.

- 4 The remainder of the upgrade process is identical to the installation procedure as described earlier in the section *Tape Media*.

Upgrading from CD

- 1 Log in as a superuser or root.
- 2 Move to the existing UAP directory and use the following command to extract the BINARY and TEXT media and automatically invoke an install program:

```
CD_path/install.sh CD_path language system
```

For example:

```
cd /usr/UAP
/cdrom/install.sh /cdrom american ibm
```

- 3 The remainder of the upgrade process is identical to the installation procedure as described earlier in the section *CD Media*.

Upgrading an Existing Version 9.20 System

Upgrading from Tape

- 1 Login as superuser or root.
- 2 Invoke Uniplex and select **System Admin**.
- 3 Select **Software Installation** from the System Administration menu.
- 4 Select **Upgrade Uniplex** from the Installation Options menu. The Upgrade Uniplex form appears. Load the TEXT media to add the Additional Dictionary Pack (ADP).
- 5 Load the BINARY media to add any other module.
- 6 Type the extract command in the **Download command** field, for example:

```
tar xvfb /dev/rmt/0m 20
```

- ✎ *Uniplex shows a typical tar command on the tape label. The command shown may start "tar -x". Omit the hyphen if this is not recognized on your system.*

See Appendix B for more details.

Upgrading from CD

- 1 Login as superuser or root.
- 2 Invoke Uniplex and select **System Admin**.

- 3 Select **Software Installation** from the System Administration menu.
- 4 Select **Upgrade Uniplex** from the Installation Options menu. The Upgrade Uniplex form appears. Make sure the UBS CD is loaded on the machine and is mounted.
- 5 Enter one of the following extract media commands in the **Download command** field of the Upgrade Uniplex form:

Additional Dictionary Pack (ADP):

```
CD_path/install.sh -x CD_path language
```

- ✎ The ADP contains dictionaries for several languages; *language* is the language in which you run Uniplex, not the language of a particular dictionary.

For example: `/cdrom/install.sh -x /cdrom american`

All other modules:

```
CD_path/install.sh -x CD_path system
```

For example: `/cdrom/install.sh -x /cdrom ibm`

Press **F1** or **Esc e**.

Uniplex prompts you to select the modules you want to install.

The remainder of the upgrade process is identical to the installation procedure as described earlier in the appropriate media section of *Installing Uniplex*.

The License Key Creation form appears (unless you have only added on the Advanced Graphics System) when the upgrade is finished. You can then install the required licenses. See the later section *Generating a License Key* for details.

Invoking Uniplex

This section explains how to start Uniplex and what happens during the initialization process.

- 1 Enter `uniplex` to invoke Uniplex.

This is the name of the front-end script installed in the directory `/usr/bin` (unless you have changed the front-end script name or the default directory location for installation).

Uniplex automatically extends the `PATH` environment variable to include the directory containing the main Uniplex programs and, as required, sets environment variables for use in the Uniplex applications.

Each user's `PATH` should contain `/usr/bin` but must not include the `UAP/bin` or `UAP/cmds` directories.

✎ *Uniplex does not operate fully if `PATH` is not set correctly.*

- 2 Uniplex displays the copyright notice. This message appears at the bottom of the copyright notice if you have not generated a license key:

```
WARNING: This version of UNIPLEX has no license file
Press <RETURN> to invoke RESTRICTED VERSION of UNIPLEX
or *<RETURN> to stop.
```

✎ *See the section `Demonstration Mode Restrictions in the Release Notes` for a list of these restrictions.*

3 Press **Return**.

The Welcome to Version 9.20 screen appears if this is the first time you have run this version of Uniplex, for example:

```

                Welcome to Version 9.20 of Uniplex Business Software

Summary of New Features in this Release.
(See the On-line Release Notes for more details)
```

The Welcome screen summarizes the new functionality of this release; you can use the arrow or page keys to scroll through the text. Press **Esc q** when you have finished reading the text.

Uniplex then checks to see if you have any personal files which might affect the performance of V9.20. The file names are listed on the screen if any such files are found. Make a note of these files and then press **Esc q**.

See the section *Configuration Checks on First Invocation* in the *Release Notes* for information about any messages resulting from these checks.

The Uniplex Main menu then appears.

- ✎ *Uniplex is installed with a demonstration database. You should set up this database so that your users may access it when following the Worked Example in the Uniplex II Plus User Guide. See the later section *Setting Up the Demonstration Database* for details on how to do this.*

Installation Options

This section explains how to:

- Generate a License Key
- Ensure that Uniplex is Correctly Installed

To access the Installation Options menu:

- 1 Ensure you are logged on as a superuser or root.
- 2 Invoke Uniplex from the operating system prompt.

Uniplex displays the copyright notice, followed by the Uniplex Main menu.

- 3 Select **System Admin.** from the Uniplex Main menu.
- 4 Select **Software Installation** from the System Administration menu.

Uniplex displays the Installation Options menu:

```

      I N S T A L L A T I O N   O P T I O N S           28/10/97   14:34
-----
1 - Generate License Key(s)           4 - Change Database Link
2 - Check UNIPLEX Installation        5 - Install Independent add-on
3 - Upgrade Uniplex                   Module
! - Shell Command
Q - Quit

F1=Enter  F2=Redraw  F4=Quit  F5=Expand           F8>More
```

The Change Database Link option lets you select which Uniplex Datalinks to use. See the chapters *Database Forms* and *Database Query* in the *Uniplex II Plus User Guide* for details.

The following sections explain how to use the remaining options.

Generating a License Key

This section explains how to generate a license key. Each main Uniplex software module has a separate license key. The license code has three parts:

- The key number which is printed on the inside of your End User License Agreement, in the form:

AA9999AA9999999

where A represents an alphabetic character and 9 represents a numeric character, for example:

US9208ZD9999999

- Two separate check digit numbers in the form:

99999999 99999

Follow the instructions in the License Agreement folder included with the software media to obtain these check digit numbers which are supplied by Uniplex at the time of software installation.

To generate a license key:

✎ *Go to Step 2 if you are generating your licenses as part of the main installation procedure.*

- 1 Select **Generate License Key** from the Installation Options menu.

Uniplex displays the License Key Creation form:

ENTER DETAILS		L I C E N S E K E Y C R E A T I O N	
Enter the key number for this module as shown on your license.			
BASE SYSTEM			
Key Number:		[_____]	
Check Number 1:		[_____]	
Check Number 2:		[____]	
COMPANY NAME:		[_____]	
F1=Enter F2=Redraw F3>Edit F4=Quit F5=Expand F6>Record			

The fields are empty for a new installation. The **Company Name** field shows the name contained in your existing key file if this is an upgrade.

- 2 Type the key number provided in the Licence Agreement in the **Key Number** field.
- 3 Type the first and second check digit numbers you have been given separately after contacting Uniplex in the **Check Number 1** and **Check Number 2** fields.

4 Type your company name (note that the name used when installing the BASE key will be displayed on all Uniplex menu heading lines when the product is run) in the **Company Name** field if necessary.

5 Press **F1** or **Esc e**.

Uniplex enters the information and redisplayes the License Key Creation form. You are prompted to correct the details and try again if you make a mistake when typing the information.

✎ *There is a limit to how many licenses you can enter from one invocation of the License Key Creation form. The license form will not be redisplayed after entering the sixth license. You must reinvokethe license form from the Installation Options menu if you need to enter (or re-enter) more than six licenses.*

6 Repeat the above procedure for all installed modules' license keys if necessary.

7 Press **F4** or **Esc q** to return to the Installation Options menu when you have generated all license keys.

Checking Your Installation

This section explains how to check that you have all the necessary Uniplex software files installed. You may be asked to do this by your Uniplex supplier as part of their support procedure.

- 1 Select **Check UNIPLEX Installation** from the Installation Options menu.

Uniplex displays the Install File Check form:

```

Press SPACEBAR to scroll options
ENTER DETAILS      I N S T A L L   F I L E   C H E C K

```

Check BASE files	[Yes]
Check ADVANCED OFFICE files	[Yes]
Check ADVANCED GRAPHICS files	[Yes]
Check MULTI-LINGUAL DICTIONARY files	[Yes]
Output file check data to	[File_____]
Filename for check data	[/tmp/chkfile.log__]

```

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record

```

2 Complete the form using **Spacebar** to scroll between options in the relevant fields.

- Scroll the required option to **Yes** to check a module's files.
- Select the required option in the **Output file check data to** field to determine where the output from the installation check is sent. The options are:

Screen

File

Screen & File

- Enter the file name if the output from the installation check is to be written to a file. The default is /tmp/chkfile.log.

3 Press **F1** or **Esc e**.

Uniplex checks the files and outputs the data according to your specifications noting any missing files or incorrect permissions.

Setting Up and Using Printers

You should define a default printer interface and, if necessary, define the printer defaults after installing Uniplex. You may also wish to print out the supplied on-line quick reference pages or on-line technical guides.

The following sections describe each of these tasks.

Setting Up a Printer

This section explains how to set up your printer(s).

- 1 Identify the operating system command for your printer; this varies from system to system. For example, the most common printing command for Unix is:

lpr -P *printer_name filename*

where:

lpr is the command name

-P is the printer destination flag

printer_name is the name of the printer

filename is the name of the file to print

Other common operating system commands for a printer are:

lp -s -d*printer_name filename*

lp *filename*

cat *filename*>/dev/lp

- 2 Ensure that the printer command works by trying to print a small standard text file. Do not be concerned if the text appears staggered across the page (as below) as Uniplex will correctly line it up.

```
Line 1
      Line 2
            Line 3
```

- 3 Invoke Uniplex and select **System Admin.** from the Main menu.
- 4 Select **Printer Administration** from the System Administration menu.
- 5 Select **Create a New Print Screen Printer** from the Printer Administration menu.

Uniplex displays the Create a New Printer form. Note that this form appears during the installation process giving you the opportunity to carry out this task at the installation stage, for example:

```
Enter name of printer

ENTER DETAILS      CREATE A NEW PRINTER

Printer name:      [ _____ ]
Pcap entry:       [L/LBP4pc850_____ ]
Spooler/device:   [ _____ ]
Default for users: [ _____ ]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F5=Expand  F6>Record
```

6 Complete the form as follows:

- ✎ *You can cancel the command and exit from the form at any time by pressing **Esc q**.*

Field	Description
Printer name	<p>A name describing the printer. This is the text that will be displayed when the user uses the print selection form, so it should describe the printer as fully as possible, for example:</p> <pre>Upstairs Marketing Of Downstairs Admin</pre>
Pcap entry	<p>The Pcap section name. Each supported printer is defined in the system file Pcap, for example:</p> <pre>hp_jet+/H/ Of epson_fx80</pre> <p>Press any key to display a list of available names. See the <i>Uniplex Release Notes V9.20</i> for the list of names.</p>
Spooler/device	<p>The output device. The first character must be either <code> </code> (pipe) to pass the output to a spooler or <code>></code> to pass the output directly to a device, for example:</p> <pre> lp -dlaser1 Of > /dev/tty12</pre> <ul style="list-style-type: none"> ✎ <i>A spooler name should obey the rules on the next page to ensure that the calls for the print queue display and cancel operations on the Show Print Requests menu work correctly.</i>

Field	Description
-------	-------------

Default for users Enter the names of the users that want this to be their default printer interface.

Separate the individual users' names with spaces.

The spooler name rules are as follows:

- a) The spooler command must be either **lp** or **lpr** (unless you modify the shell script **uspooler** to support another spooler).
- b) Use the command that matches the underlying spooler if you have cross-mapped spooler queuing commands served by one type of spooler.

For example, on a system set up to use both **lp** and **lpr** to queue jobs for an **lpr**-type spooler, use the **lpr** command. Attempts to cancel a print job will result in this error message if you use **lp**:

```
selected line does not contain a job for user: xxx
```

This is because Uniplex will see the **lpq** report when it is expecting an **lpstat** report.

- c) Always use the print queue name in the spooler command (that is, **lp -dqueue name** or **lpr -Pqueue name**) if you have more than one printer on the machine. These results will occur if you omit the queue name:
 - i) Any Show Print Requests report may show requests for all printers which can take a very long time.
 - ii) The Cancel Print Request operation may not recognize the selected line as containing a print job.

The example below shows a completed form:

Enter name of printer	
ENTER DETAILS C R E A T E A N E W P R I N T E R	
Printer name:	[Downstairs Admin_____]
Pcap entry:	[hp_jet+/H/_____]
Spooler/device:	[lp -dlaser2_____]
Default for users:	[peter jo tracy jeremy john jane_____]
F1=Enter F2=Redraw F3>Edit F4=Quit F5=Expand F6>Record	

Users peter, jo, tracy, jeremy, john, and jane have the default printer called "Downstairs Admin". This will print using the hp_jet+/H/ Pcap section and pass the output to the laser2 spool queue.

- 7 Press **Esc e** to save the interface definition when you have completed the Create a New Printer form.

You can add interfaces for any additional printers (or printer cartridge configurations) available on your system. You can also modify or delete existing printer interfaces as described in the following subsections.

- ✎ *The installation procedure sets up a default plotter interface when you install the Uniplex Advanced Graphics System. This interface allows you to plot graphs created with the Advanced Graphics System. The procedure for setting up plotter(s) is similar to that described above for printer(s). The only difference is that you specify a Gcap entry rather than a Pcap entry on the Create a New Plotter form.*

Modify a Printer Interface

To modify a printer interface that has already been created:

- 1 Select **System Admin.** from the Uniplex Main menu.
- 2 Select **Printer Administration** from the System Administration menu.
- 3 Select **Amend Print Screen Printer Details** from the Printer Administration menu.

Uniplex prompts you for the name of the printer whose interface is to be modified.

- 4 Press any key to see a list of the configured printer names that you can choose.
- 5 Select the printer name required from the list and press **Esc e**.

Uniplex displays the full details of the selected printer interface and you can now change any of the fields. Use **Tab** to move between fields on the display.

Press **Esc q** to cancel the command and exit from this form.

- 6 Press **Esc e** to save the modified printer interface when you are satisfied with the changes you have made.

Delete a Printer Interface

To delete a printer interface that you no longer want:

- 1 Select the **System Admin.** from the Uniplex Main menu.
- 2 Select **Printer Administration** from the System Administration menu.

- 3 Select **Delete a Print Screen Printer** from the Printer Administration menu.

Uniplex prompts you for the name of the printer whose interface is being deleted.

- 4 Press any key to see a list of the configured printer names that you can choose.

- 5 Select the printer name required from the list and press **Esc e**.

- 6a Press **Return** if you are sure you want to delete this interface.

Uniplex deletes the printer interface.

- 6b Otherwise, press **Esc q** to cancel the command and exit from the form.

Defining the Printer Defaults

Uniplex provides defaults for printing output from each given application. These defaults specify the printer and style to use, for example, each time a word processing document or a spreadsheet is printed. You may need to change these defaults at some time in the future.

The printer defaults are changed as follows:

- 1 Change to the **PRINT** subfolder where your system files are located, for example, **/usr/UAP/PRINT**.
- 2 Edit the file called **defaults**.

This file contains the printing defaults in the format:

```
product-code, style-name, printer-name
```

Product-code	The code for each application, for example <i>WP</i> .
Style-name	The name of the style to use, for example <i>Quality-A5</i> .
Printer-name	The name of the printer on which to print.

- 3 Change the entries as required and then save the file.

Printing the On-line Documentation

You can print the on-line documentation double-sided by adding the print-time command **.SNDUPON** either at the top of the document or at the top of the first page you are printing if you have a printer with duplex capabilities. This is particularly useful when printing large documents such as the Technical Guide.

You can read any document using the Uniplex Word Processor; you can also print specific sections, chapters, or an entire document.

✍ *We recommend that, after installation, you print the Technical Guide for your immediate and future reference.*

All the on-line documents, with the exception of the APP-related ones, are Pre-Styled documents. These documents contain print style information which ensures that the document will print as intended. The print styles created specifically for these documents are built into the documents. We have also defined two printer classes which tell you which documents are Portrait and which are Landscape. You should not change the style name on the Print form, you only need to choose a Portrait or Landscape printer when printing an on-line document.

Print and read *A Printer Test Document* for more details about the print styles and printer classes.

To print an on-line document:

- 1 Select **System Admin.** from the Uniplex Main menu.
- 2 Select **On-line Documentation** from the System Administration menu.

Uniplex displays the On-line Documentation screen and prompts for the following information:

Document Press any key to open a pop-up list of all available documentation and select the appropriate document name.

Action Press **Spacebar** to scroll to **Print**.

- 3 Press **F1** or **Esc e** to confirm.

Uniplex will display the the Print form for you to choose which part of the document to print.

Uniplex redisplayes the On-line Documentation screen when you have finished printing an on-line document.

- 4 Press **F4** or **Esc q**.

Setting Up Mailing Lists and External Mailboxes

Setting Up Mailing Lists

It is recommended that you set up *system mailing lists* before users start using Mail if you have installed the Advanced Office System. Mailing lists are used in UBS Mail and Time Manager to:

- Create Named Lists of Users for Mail or Scheduling
- Associate a Plain Name with a Computer Address

Mailing lists are lists of user addresses. You can send mail to a mailing list by just specifying the mailing list name. You can create a mailing list for any group of people to whom users on your system regularly want to send mail (for example, everyone in a particular department, section, or division).

✎ *Individual users can create mailing lists for their own use.*

You can create *system* mailing lists that are available to everyone on your system.

Create a system mailing list as follows:

- 1 Select **Mail** from the Uniplex Main menu.
- 2 Select **Administration** from the Electronic Mail menu.
- 3 Select **Create List** from the Mail Administration menu.

Uniplex displays the Create List form.

4 Complete this form as follows:

List Name

Enter the name to call the list, for example:

```
directors
```

Add a comment, enclosed in asterisks (*), to the name if required. Uniplex displays this comment in the popup you can display when addressing mail, for example:

```
directors*doc division*
```

Availability

Press **Spacebar** to scroll the entry to:

```
system-wide instead of Personal
```

Address(es)

Enter the address of each person you want included in the list. Separate each name with a comma. The address is the user name of the person if they are on this system or their system name and user name if they are on a remote system.

For example, a user on this system, with the user name *smithf*:

```
smithf
```

Or a user on the remote system *blue* with the user name *smithf*:

```
blue>smith
```

5 Press **Esc e** when you have completed the form.

Uniplex creates the mailing list.

You can edit distribution lists. They are stored in the file `uniplex.alias`. See the later subsection *Editing the uniplex.alias File* for details.

You can also set up *alias names* for use with Time Manager. Users can use alias names if they often schedule conferences with the same group of people. Only a single alias name need be entered instead of always having to enter the full list of users. The conference is then automatically entered in all the calendars defined by the alias. You can create alias names in the same way as you create mailing lists. The only difference is that you select the Administration option from the Time Manager menu and then select the Create Alias option. The remaining steps are the same.

Set Up Real Names for Use with Mail

You send mail to other users on your computer system addressing them with their user name by default. The user name is the name by which the person is known to the computer system. You send mail to users on other computer systems addressing them with the name of the system and their user name. You can set up mail so that users can send mail to other users using their real name.

People find it easier to send mail using real names rather than user names. Therefore, it is strongly recommended that you set up real names before people begin to use Mail.

Decide on the form of names you want to use before setting up real names. This depends on the conventions used at your site, for example:

Fred

Fred Smith

F. Smith

Smith, Fred

Talk with your users and decide on a standard format for names.

You can associate a comment with a real name in addition to setting up the names. For example, you can add the person's job title in the company. Uniplex displays this comment, along with the person's name, in the popup that you can display when addressing mail.

You set up real names in the file `uniplex.alias`. You make real name entries in the file in the same way you create mailing lists. Just create a mailing list which contains only one address to set up a real name.

Users can perform these functions when you have set up real names:

- Address messages using the real name.
- Display a list of real names, plus associated comments when addressing mail by using **F5** from the Send form.

Editing the `uniplex.alias` File

Mailing lists, real names, and alias names are set up in the file `uniplex.alias`.

You can edit entries in this file as follows:

- 1 Select **Mail** or **Time Manager** from the Uniplex Main menu.
- 2 Select **Administration** from the Electronic Mail or the Time Manager menu.
- 3 Select **Edit List** from the Mail Administration menu or select **Edit Alias** from the Time Manager Administration menu.

Uniplex displays the Edit List File form.

- 4 Ensure the entry is set to *system-wide* and press **Esc e**.

Uniplex invokes the Word Processor on the file *uniplex.alias*.

- 5 Edit the entries as required.

Distribution lists and alias names you have created are shown as follows:

```
listname = address, address...,address;
```

Where *listname* is the name you gave the distribution or alias list and *address* is the address of each person in the list.

The real names you have set up are shown as follows:

```
real_name = address;
```

Where *real_name* is the name by which the person is known and *address* is the user name of the person if they are on this system or their system name and user name if they are on a remote system.

- 6 Press **Esc e** when you have made the changes you require.

Enabling External Mailboxes

You define how and when to collect mail from external systems by enabling the external (Unix) mailbox processor. To do this:

- 1 Select **System Admin.** from the Uniplex Main menu.
- 2 Select **Enable External Mailbox** from the System Administration menu.

Uniplex displays the Enable External Mailbox form:

```
Enter program to read mailbox (for UNIX/XENIX mailbox enter: umd_runix)

  E N A B L E   E X T E R N A L   M A I L B O X

This option allows you to enable a mailbox
for receipt of external mail.

Mailbox driver      :[ _____ ]
Mailbox             :[ _____ ]
First check date   :[28/10/97]
First check time   :[14:45__]
Repeat interval (hh:mm) :[ _____ ]

F1=Enter  F2=Redraw  F3>Edit  F4=Quit  F6>Record
```

3 Complete the fields on this form as follows:

Mailbox driver Enter the name of the default program provided with Uniplex if you want to pick up standard Unix operating system mail:

`umd_runix`

See your System Administrator if you want to pick up mail from a different type of mail system.

Mailbox

Enter one of the following:

- The name of the mailbox directory, for example:

```
/usr/spool/mail
```

- A single mailbox file name, for example:

```
/usr/spool/mail/fred
```

- The < character followed by the file name of the file that contains the mailbox names.

- 4 Set the check interval to the number of minutes you want the system to wait between each successive check for new mail. A good example is '3' for three minute intervals. Press **Esc e**.

Uniplex enables the external mailbox you have specified.

Disabling External Mailboxes

You can disable external mailboxes if, for example, a machine is being re-installed or a recovery from backup is being performed.

To do this:

- 1 Select **System Admin.** from the Uniplex Main menu.
- 2 Select **Disable External Mailbox** from the System Administration menu.

Uniplex displays a list of all external mailboxes that are set up for your system.

- 3 Select the external mailbox you want to disable and press **Esc e**

Uniplex disables the external mailbox you specify.

POP3 or IMAP?

Uniplex now allows a choice of access methods for Email. Users can read, respond and compose email on their character terminal, a PC or any internet device that supports either POP3 or IMAP. For those unfamiliar with these access methods, the following comparisons may help you to determine the best method for accessing your Uniplex Mail Store.

- 1) If you access the Uniplex Mail Store with a POP3 client, any new emails will be downloaded onto your client system and deleted from the server. This means that if you lose or damage your client system, your email cannot be recovered. connections made with an IMAP client work with your files on the server, which means that they are subject to regular backups, etc.
- 2) If you access your email with an IMAP client, all the folders you have created in the Uniplex Mail Store are visible. From your client machine or any other interface you can move and copy messages between folders, and create new folders.
- 3) From a POP3 client, only the main mailbox (general) of the Uniplex Mail Store is accessible. Once a connection has been made, all mail currently in this mailbox will be downloaded and deleted. For this reason, switching between POP3 and IMAP access is discouraged.
- 4) If you want to be able to connect to the Uniplex Mail Store infrequently (eg. once per day), and work offline for the rest of the time on your email, it is probably best to use POP3.
- 5) If you are connected to the Uniplex Mail Store most of the time, it is best to use IMAP.

Setting Up POP3 Mail Clients

UBS V9.20 now allows users to access the Uniplex mailstore with any POP3-compliant mail client including Microsoft Outlook and Outlook Express, Netscape Communicator, Pine, and Eudora. In effect, nearly all mail clients use one or both of these standard mail connection methods. In addi-

tion, most web-based mail systems have a POP3 consolidation facility which allows a user to collect email from multiple (normally POP3) sources.

The POP3 client must be configured with the host address of the system on which Uniplex is running and with the Unix userid and password of the user. The details of how to do this will depend on the POP3 client. You should consult any instructions or help supplied with the specific client being used. Setup instructions are listed for Microsoft Outlook, as an example, but most clients are similar to this.

Setting Up IMAP Mail Clients

UBS V9.20 allows users to access the Uniplex mailstore with any IMAP-compliant mail client including Microsoft Outlook and Outlook Express, Netscape Communicator, Pine, and Eudora.

The IMAP client must be configured with the network address of the system on which Uniplex is running and with the Unix userid and password of the user. The details of how to do this will depend on the IMAP client. You should consult any instructions or help supplied with the specific client being used. Setup instructions are listed for Microsoft Outlook, as an example, but all MS Windows clients are similar to this.

Setting Up Microsoft Outlook as an IMAP or POP3 Client

- 1 Run Outlook and select **Accounts** from the **Tools** menu.
- 2 Select the **Add** button from the **Accounts** dialog box and select the **Mail** option.
- 3 Enter your full name (e.g., 'Mark Erehwon') in the **Display Name** field.
- 4 Click on the **Next** button and enter your e-mail address in the format that you have been told to use (e.g., 'marke@uniplex.com').

- 5 Click on the **Next** button and set the **My incoming mail server is a** field to **IMAP** or **POP3**, whichever you have decided to use.
- 6 Set the **Incoming mail server** field to the server address of your Uniplex mailstore (e.g., 'mailstore.uniplex.com').
- 7 Set the **Outgoing mail (SMTP) server** field to the same address. Note that this field may use the word *Sendmail* instead of SMTP.
- 8 Click on the **Next** button and enter your Unix login and password for the Uniplex system.

Setting Up LDAP Client Access

UBS V9.20 comes complete with a new directory access tool which uses the Lightweight Directory Access Protocol (LDAP) to allow Networked directories of information (eg Address Books) to be accessed from a Uniplex Mail session.

Many organizations use LDAP to maintain an enterprise-wide address book, allowing staff and customers to search for contacts using various criteria, including name, telephone number, division, location etc.

The Uniplex LDAP client supports all of the features of RFC xxxx, refer to the Technical Guide for detailed information on configuring client access and Client Authentication.

Setting Up the Demonstration Database

Uniplex is installed with a demonstration database. This is used during the Worked Example in the *Uniplex II Plus User Guide* to illustrate its primary functions to new database users.

The demo database is called `us_sales` and is stored in the directory `$Uniplex/demo`.

Since, in the course of the Worked Example, changes are made to the database, it is recommended that it be rebuilt for each new user. To do this:

- 1 Select **Database Query** from the Uniplex Main menu.
- 2 Enter the following at the database prompt:

```
use /usr/UAP/demo/US.BLD
```

Refer to the *Uniplex II Plus User Guide* which gives details about controlling access to databases if Database Query does not accept this statement or if you have any other problems building the database.

Uniplex displays each command it is executing as it builds the database and then displays the Query prompt when it has finished. It will take Uniplex some minutes to build the database, depending on the performance of your system.

Appendix A

Disk Space Requirements

This appendix tells you how much disk space you need to install or upgrade Uniplex. You should ensure you have sufficient disk space for both the number of files (referred to as i-nodes by your operating system) and for the number of disk blocks that these files require before installing or upgrading your Uniplex software.

The following table shows the expected disk space requirements to load a tape to disk. An allowance for variation from system-to-system has been included in the figures below.

Disk Space Requirements to Load Media

Media	Files (i-nodes)	MB	512-byte blocks
BINARY	920	40	80,000
TEXT	600	17	34,000
APP 5.1	410	10	20,000

To check if you have sufficient disk space:

- 1 Enter the operating system command:

```
df
```

This shows the current number of free blocks and i-nodes. You need to use the `-i` flag in conjunction with this command on some systems, for example:

```
$ df -i
 /usr/tmp (/dev/hd1d) ):          3880 blocks          8662 i-nodes
```

- 2 Check the block size the **df** command uses when reporting free space. This information is provided in the operating system manual. You need to apply the appropriate factor to the block counts quoted here if your operating system uses a different block size than 512 bytes.

All the disk space is used by the central Uniplex UAP directory so the full amount of space required must be available on one file system. The suggested location is /usr/UAP. However, if this is not suitable you can use another file system with more space. Change to the proper directory other than /usr before downloading the Uniplex software if this is the case.

The following table shows the space required for installed modules:

Space Required for Installed Modules

Module	Files (i-nodes)	MB	512-byte blocks
BASE	960	29	58,000
AGS	560	5	10,000
AOS	30	3	6,000
ADP	320	23	46,000
APP (everything)	300	10	20,000
APP (no documentation)	50	5.5	11,000
UDA	80	13	26,000

✍ *The APP space depends on the number of drivers installed. Figures quoted above are for installing all drivers.*

As an example, if you are installing BASE, UDA, AOS, and one printer driver, you would need to load all three media sets and allow a transient disk space of:

```
920 + 600 + 410 = 1,930 i-nodes
 40 + 17 + 10 =   67 MB
```

Note that after an **ongo.link** to an onGO \$NVO area with the converters installed the UDA module takes virtually no disk space. This is because all the space is taken up by the binary programs which are then shared with the onGO area ones.

✎ *In practice the number is lower than this since the APP installation occurs after much of the unwanted data from the BINARY tape has been removed from disk.*

All unnecessary files will have been removed and, assuming that the APP driver was approximately 1 MB, you will have used the following space once the install is complete:

960 + 30 + 80 + 1 = 1,100 i-nodes approximately
29 + 3 + 13 + 1 = 46 MB

Upgrade Considerations

Most sites will find that the number and size of files used by Uniplex has not changed substantially once the upgrade from an earlier version is complete. Potential size changes will occur in the following circumstances:

- 1 BASE now takes about 8 MB more than its Version 8.00 counterpart if you did not have Uniplex Windows installed. This is due to the Motif and File Manager support installed as part of BASE.
- 2 V9.20 will take about 8.5 MB more space than indicated above if you upgrade from V8.xx AOS. This is because it preserves the onGO Character Clients. This space will not be taken if you upgrade from V7.xx AOS.
- 3 The converters take additional space, as shown in the table above, if you choose to install them while upgrading.

You will need the transient disk space for the one media unit you have to load (BINARY, TEXT, or APP) when adding a not-currently installed module onto V9.20. You will then be using the additional space shown in the table above when the upgrade is complete.

Growth Considerations

You should plan on growth in disk usage on the file system being used as some data files and databases reside under the central UAP directory.

The main areas of growth are summarized below:

Space Planning for User Data

Data	Approximate Space per Item	Examples
File Manager Index Database	430 bytes/file or folder 340 bytes/parent folder index overhead: 50%	20,000 indexed files and folders contained in 1,000 separate folders = 13 MB
Calendar (AOS)	460 bytes/entry 2 i-nodes/diary	20 users, each with an average of 50 diary entries = 0.46 MB; 40 i-nodes
Uniplex Mail (AOS)	1 KB/message header 1 i-node/message 10 i-nodes/user-mailbox	20 users, each with 3 mailboxes, each with an average of 33 mes- sages; an average message size of 3.5 KB = 10 MB; 2,600 i-nodes.

Appendix B

Device Names

This appendix provides additional information on device names. These are written on your media label in symbolic form, for example:

```
tar xvfb [DEVICE_NAME] 20
```

Replace `DEVICE_NAME` with the name of the tape or disk drive you are using when you enter the command. The name varies from system-to-system. See the System Administrator if you do not know the device name.

The following is a list of common device names.

<code>/dev/TAPE.CART</code>	<code>/dev/rmt0</code>
<code>/dev/ct/c3d0s2</code>	<code>/dev/rmt1</code>
<code>/dev/nrtp</code>	<code>/dev/rtp</code>
<code>/dev/rct/0m</code>	<code>/dev/rts0</code>
<code>/dev/rct0</code>	<code>/dev/st0</code>
<code>/dev/rct</code>	<code>/dev/stape</code>
<code>/dev/rmt/0h</code>	<code>/dev/st</code>
<code>/dev/rmt/0m</code>	<code>/dev/tape00</code>
<code>/dev/rmt/540</code>	<code>/dev/tape</code>
<code>/dev/rmt/c1t2d0s0n</code>	<code>/dev/rmt/tmq525n</code>

- ✎ *Uniplex shows a typical tar command on the tape label. The command shown may start "tar -x". Omit the hyphen if this is not recognized on your system.*

Appendix C

Environment Variables

This appendix provides details on the environment variables you can set when installing or upgrading Uniplex.

UNIPLEX_NAME

Set this environment variable to change the front-end script name; this is the name you use to invoke Uniplex. The default is **uniplex**.

For example:

```
UNIPLEX_NAME=v9
export UNIPLEX_NAME
```

You do not need to set this environment variable when upgrading. Uniplex will always use the name recorded in the file:

```
$Unode/UAP/.installation/BASE/.installed
```

UNIPLEX_DIR

Set this environment variable to change where the front-end script is located. The default is `/usr/bin`.

For example:

```
UNIPLEX_DIR=/usr/local/bin
export UNIPLEX_DIR
```

You do not need to set this environment variable when upgrading. Uniplex will always use the name recorded in the file:

```
$Unode/UAP/.installation/BASE/.installed
```

TERM

Set this environment variable to obtain the best screen display possible for your particular terminal, for example:

```
TERM=wyse60
export TERM
```

See the *Release Notes* for a list of supported TERM names.

You need to check you have not overridden the private terminal description for Uniplex by resetting the environment variables TERMINFO or TERMCAP; enter:

```
echo "$TERMINFO $TERMCAP"
```

You must blank out or unset one of these environment variables if the response is not a blank line, for example:

```
TERMINFO=""
export TERMINFO
TERMCAP=""
export TERMCAP
```

Uredirect

This environment variable is for upgrade from a earlier versions. You only need to set this if you are going to download the Upgrade media in a directory other than the current UAP directory. Set Uredirect to the directory containing the current UAP, for example:

```
Uredirect=/usr
export Uredirect
```

Appendix D

Troubleshooting

This appendix describes the error messages which may occur while you are installing or upgrading Uniplex. Messages which are self explanatory or messages followed by on-screen instructions are not listed.

Each message is accompanied by an explanation of how to correct it. They are divided into the sections:

- Messages during Installation or Upgrade
- Messages from CD Media
- Messages when Invoking Uniplex
- Messages when Running Uniplex Windows

Messages during Installation or Upgrade

The following error messages are listed in the order they appear if an error occurs during installation.

tar: x: No such file or directory

Your system requires a hyphen in the "tar" extract command. Repeat the command, adding the hyphen. For example, instead of typing **tar xvf 20 /dev/rmt0**, type **tar -xvf 20 /dev/rmt0**.

UAP/install: not found

Ensure that you have not changed your working directory after loading from the media and before typing UAP/install and that you have loaded the text media on the machine prior to entering UAP/install.

WARNING: UNIX shell does not operate correctly

Ensure that you are using the standard 'Bourne' shell (/bin/sh or /bin/bsh). Do not use 'C shell' (/bin/csh). Look at your computer manufacturer's operating system manual for details.

ERROR: unable to create "xxxxxxxx" Cannot proceed

The installation has aborted because it could not create the named file. Read the file /tmp/UAP.inst.err for more information. Ensure that you have not run out of disk space for the installation. Otherwise, report the error to your supplier or to Uniplex Support.

In folder "yyyyy", saving existing file "xxxx" as "xxxx.9999"

Where:

yyyyy is the name of a folder in your previously installed version of Uniplex.

`xxxx` is the name of the file in your previously installed version of Uniplex.

`xxxx.9999` is the new name of the file for the version you are installing.

Uniplex replaces the existing file with a new one. The existing file is re-named; this allows you to recover it later if necessary.

```
xxxx: not found
xxxx: no such file or directory
Cannot find file: xxxxxxxx Terminating installation
```

Ensure that you have loaded all the media volumes and that you loaded the correct media for your system. You need to reinstall Uniplex. Read the file `/tmp/UAP.inst.err` for more details of the errors.

```
ERROR: Standard system utility "xxxxx" does not operate
correctly...
```

The installation is aborted. Check with your supplier or with Uniplex Support to ensure that no utility files are missing.

The problem could be that there are missing files rather than a missing program if the program name is `tic`; check this by entering `tic xxxx` at the operating system prompt where `xxxx` is any name that is not a file on your system. You are missing a vital operating system program if the message displayed is:

```
tic: not found
```

You are missing some files, they may be missing from your media, or you have not loaded all the volumes of the media device if the message displayed is:

```
tic: Can't open xxxx
```

You must invoke install program as "UAP/install"

Ensure that you are not in the UAP directory. You should be in the UAP parent directory.

**WARNING: Your shell may not be fully 8 bit clean
This may affect the usability of non-English language
versions of Uniplex
(Failure in test of: xxxxxxx)**

This warning message only appears when you are installing non-English language versions of Uniplex and your operating system shell and utilities are not *8-bit clean*. It is a requirement for translated versions of Uniplex to be 8-bit clean. Check with your computer supplier for an updated version of the operating system.

**The PATH for the Uniplex installation is more than 40
characters long please reload with a shorter path**

The current directory is too deep into the File System for Uniplex to operate safely. Remove the UAP directory and reload it further up your file system.

**ERROR: Unable to proceed with installation. See
"/tmp/UAP.inst.err" for details of errors. Terminating
installation**

The specified file contains more details. Errors in the form:

Cannot find file: xxxxx

usually indicate that you have not loaded all the volumes from the distribution media. This can also indicate that files that should exist in your old Uniplex installation have been deleted (to save space, for instance) if you are upgrading. You must first restore the missing files from the original Uniplex media or for non-critical files such as anything under the UAP/demo directory, just create empty files of the same name to allow the upgrade to be rerun.

Messages from CD Media

File Names on the CD

Filenames on the CD are in lower case in DOS (8+3) format for cross-platform compatibility. If the install fails with a Unix error message such as:

```
cannot find file: /cdrom/install.sh
```

preset the environment variable **UNIPLEX_CD_FILENAMES** to **UPPER** and run the command 'install.sh' in upper case. eg.

```
UNIPLEX_CD_FILENAMES=UPPER
export UNIPLEX_CD_FILENAMES
/cdrom/INSTALL.SH ...
```

The volume name of the CD which some auto-mounters use is of the form **UBS_nnnnn**, where *nnnnn* is the media reference number printed on the CD. Use this command for a synopsis of the files on the CD:

```
/cdrom/install.sh -info
```

Using a Language not Supplied

If you have TEXT media containing a language version of Uniplex that is not supplied on the CD:

- 1 Follow the install or upgrade instructions above, but, before using the **install.sh** command, use the appropriate **tar** command to extract the TEXT media (as described in *Installing from TAPE*).
- 2 Run the **install.sh** command using a hyphen (-) for the *language* code.

System Names

Selecting an incorrect *system* name will not be noticed until the install program is automatically run, when it will fail with an (often obscure) error message.

For example, if you try to install the **ibm** binary (which is for RS/6000 machines) on an Intel-based machine running Solaris (instead of the **sunx86** binary) the install command will fail with an error of the form:

```
umsg: syntax error at line 1: `|' unexpected Terminating installation
```

Remove the newly-created UAP directory hierarchy from your disk to recover from this or any other CD installation failure. This will be in your current directory if you are installing from CD, so do this using:

```
rm -fr ./UAP
```

Shell escape from Uniplex and use this command if you are upgrading from CD:

```
rm -fr $Uredirect/UAP/UAP
```

Then re-run the install or upgrade using the correct command.

Messages when Invoking Uniplex

The following error messages may appear while invoking Uniplex for the first time:

uniplex: not found

Verify the following:

- The installation was successful.
- Uniplex is installed in a directory which is not specified in the user's PATH. The user's login should be changed to include the relevant directory.
- You may have changed the front-end script name to something other than **uniplex**. Invoke Uniplex using the appropriate front-end script name.

Error -1 : termdef file version mismatch - rebuild

This is caused by corrupt terminal descriptions which must be removed, for example:

```
cd /usr/UAP/termdef  
rm term-name ../commands/term-name
```

Rebuild the deleted files by invoking Uniplex. Use the appropriate command for your version of Uniplex.

Error -191 : Cannot open termdef file

This is caused by corrupt terminal descriptions which must be removed, for example:

```
cd /usr/UAP/termdef  
rm term-name ../commands/term-name
```

To correct this:

- 1 Ensure that the permissions are set correctly.
- 2 Rebuild the deleted files by invoking Uniplex. Use the appropriate command for your version of Uniplex.

**ERROR: you are already running "uniplex"
EXIT from this shell to return to UNIPLEX**

Verify the following:

- You have not changed the front-end script, invoked Uniplex, and then used the same front-end script a second time. Enter **uniplex** if you are trying to invoke a subordinate copy of the Uniplex Main menu.
- The front-end script name is for a previous version of Uniplex which is already running.

**Error -198: system.comp version mismatch : require
version 1.2**

This occurs if a user with no local system.comp file attempts to run a Uniplex program against a system- or nodal-Uniplex UAP area containing a system.comp file created by an older version of Uniplex.

This error generally only occurs on systems with multiple (for example, test) versions of Uniplex installed.

**Error -198: system.comp version mismatch, use 'syscomp
-s'**

This occurs if a user on a system with multiple versions of Uniplex attempts to return to an older version after having created a local system.comp file with a later version (for example, by saving Working Options in the Word Processor).

This can be corrected by removing the local system.comp file:

```
rm $HOME/UAP/system.comp
```

```
Incorrect version number in ucalc.rc!  
ucalc: 9.20, issi.rc: 7.0xz  
cannot read issi.rc
```

This will affect any user who has a customized Spreadsheet configuration file from an earlier release.

Refer to the section *Configuration Checks on First Invocation* in the *Release Notes* for details on how to update the configuration file.

**OUT OF DISK SPACE. Call System Administrator;
Do NOT exit!**

An application has failed to save a file due to lack of disk space and exiting the application will lose data.

The user must not exit or quit the application until a successful save has been made in order to not lose data. This may be done either by saving in a file on a different file system or after the Administrator has freed space on the full file system. The application puts up this standard message to alert the user to the potential data loss when this occurs.

. *Running out of Autosave space will not cause this error, but further autosaves for the current editor session are disabled.*

This is the first time you have run this version of Uniplex. Checking your personal Uniplex configuration files

```
WARNING: You have a personal copy of Uniplex file(s):  
filename ...
```

```
which may conflict with those installed as part of the  
new version. Some Uniplex functions may therefore oper-  
ate incorrectly.
```

The first time a user runs a new version of Uniplex this report shows any local configuration files that the user has which may cause Uniplex not to work as expected.

For example, if the file **db/interfaces** is shown, the user will probably find that the File Manager fails to start and the following error is shown:

```
File Manager initialization failed.
```

See the section *Configuration Checks on First Invocation* in the *Release Notes* for more information on the files that may be reported.

Messages when Running Uniplex Windows

The following errors can occur when running Uniplex Windows on a misconfigured operating system. They are seen in the window that started `uxwindows` when an attempt to launch a Uniplex application fails:

Error 14, errno 13 : Permission denied

This error can occur when the device `/dev/tty` does not have read/write access to all users. Log in as root and type the following command:

```
chmod a+rw /dev/tty
```

to resolve this problem.

no available ptys

"PTY" is the acronym for a Pseudo-Terminal device—a mechanism used by Uniplex Windows to communicate with an X Windows display.

There are two reasons why this error occurs:

- There are PTY devices available, but they have restrictive permissions.

Issue the command to give access to these devices unless you have good reason to force such restrictive security. The names of the devices differ from system-to-system. For example, enter the following command as root:

```
chmod a+rw /dev/pty/*
```

- There really are no more PTY devices available.

Consult your operating system manuals or computer supplier to find out how to create more devices.

Appendix E

Generic Release Note Information

Known Generic Problems

The following generic problems have been found with this release of UBS.

Using VT200-derived Terminals with Uniplex

Some VT200-derived terminals do not have an 'ESCAPE' key (ESC) which means that Uniplex 'direct' commands (such as **Esc q** for quit) are not accessible. You can use the '**DO**' key if it is available. However, many VT200-alike terminals also have one labelled **Esc**. Since VT200-derived terminals usually operate correctly as a VT100, it is therefore safest to set TERM=vt100 if an ESC key is present.

Otherwise, type the five characters **Ctrl+[[2 9 ~** (Control+square brace, square brace, two, nine, tilde) wherever a Uniplex manual says press **Esc** if using a terminal on which there is no **DO** key or it doesn't work as expected. For example, to quit Uniplex, type:

```
ctrl+[ [ 2 9 ~ q
```

TERM names that have a non-Esc lead in key defined include: vt200, vt220, vt240, vt300, vt330, vt340, alfaskop220, 70022, 70032, m2, m2220, micro2220, m4305, vis241, visual241, wyse85, wy85, and wy85.

Uniplex reference: YOT:33689

Uniplex Windows

Uniplex Windows on the Common Desktop Environment (CDE)

Uniplex Windows can be accessed from and stored on the CDE desktop like any other application. You can use the CDE File Manager to open the

/usr/bin directory and then click on the **uxwindows** program icon or you can run Uniplex Windows by typing **uxwindows** in a terminal window.

Highlight the **uxwindows** icon in the CDE File Manager and then use the **File->Put On Desktop** menu option if you want to keep the **uxwindows** icon on your desktop.

✎ *A CDE **Execute** shell window will be opened to start **uxwindows** and then remains open when running **uxwindows** in this way. This window can be dismissed using the appropriate interrupt key (for example, **Ctrl c**). Consult the CDE documentation for details of how to invoke applications from program icons without an additional window.*

Error Messages on Invoking Terminal

Lack of suitable resources may cause messages of the form

```
Warning: Cannot convert string "xxxx" to type VirtualBinding
No type converter registered for String to Bitmap conversion
```

to appear on the console or invoking terminal when running Uniplex Windows. They can in most cases be ignored, or a different server type (from UAP/XW/servers) can be used which more closely matches the X-Windows environment being used.

Selecting the Correct Server Type

By default, running '/usr/bin/uxwindows' with no server argument will force uniplex to use the server file UAP/XW/server/default which is always the lowest featured server available. To get the best out of your X-Terminal, refer to the following table. Set the environment variable 'UXENVIRONMENT' or use the server name as the last argument when invoking Uniplex Windows. To use the hpcolor definition, either type

```
UXENVIRONMENT=hpcolor ; export UXENVIRONMENT
uxwindows
```

or type

```
uxwindows hpcolor
```

Note that to make any other server the default, simply copy the file over the default file.

Uniplex Windows Server Capabilities

Server Name	Description	Fonts	Color	Mouse Buttons
A1097A	HP Console - color	iso8859/1	Y	3
deccon	Digital DECStation/Alphastation	iso8859/1	N	3
decconcolor	Digital DECStation/Alphastation	iso8859/1	Y	3
default	Simple Monochrome PC emulation	Fixed	N	3
dgaviion	Data General AViiON Console	iso8859/1	N	3
hp_console	Old HP Monochrome X-Console	Fixed	N	3
hpcolor	HP Color X-Terminal	iso8859/1	Y	3
ibm5081	IBM HFT X-Terminal	iso8859/1	Y	3
ibm6153	IBM X-Terminal	IBM	Y	3
ibm8859	IBM Monochrome X-Terminal	Fixed	N	3
ix	Sun Interactive Unix Console	Fixed	N	3
ixmb2	Sun Interactive Unix Console	Fixed	N	2
ix-8859	Sun Interactive Unix Console	iso8859/1	N	3
ix-8859mb2	Sun Interactive Unix Console	iso8859/1	N	2
ncd	NCD X-Terminal - Monochrome	Fixed	N	3
ncd.adobe	NCD X-Terminal - Monochrome	iso8859/1	N	3
odt	SCO ODT X-Windows	iso8859/1	Y	3
odtrmb2	SCO ODT X-Windows	iso8859/1	Y	2
sony8859	Sony Workstation	iso8859/1	N	3
sun	Sun SPARCstation Console - Mono	iso8859/1	N	3
suncolor	Sun SPARCstation Console - Color	iso8859/1	N	3
tv	NCR Towerview with Font Server	Served	N	3
vis	Visual 640 X-Terminal	iso8859/1	N	3
visX19	Visual X19 X-Terminal	iso8859/1	N	3
visX19grey4	Visual X19 X-Terminal, Greyscale	iso8859/1	GS	3

Compaq Alpha AXP

Release Note Supplement

Port Details

Machine:	Compaq Alpha AXP (Digital Alpha)
CD code:	compaq
Cut:	V9.20 - 402.1002 (haloumi)
Platform:	Tru 64 Unix 4.0D
Database Supplied:	Informix-SE 5.10 UC1, Informix-SE 2.10
Datalinks:	Informix-SE 2.10 Informix-SE 5.xx Informix-SE 7.xx ¹ Informix Dynamic Server 7.xx ¹ Oracle 8i ¹ Ingres II ¹

¹ Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run.

Hewlett-Packard 9000/7xx-8xx

Release Note Supplement

Port Details

Machine: Hewlett Packard 9000/7xx
Hewlett Packard 9000/8xx

CD code: **hp**
Cut: V9.20 - 402.1005 (gozo)
Platform: HP-UX 11.00
Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1
Datalinks: Informix-SE 2.10, Informix-SE 5.xx
Informix-SE 7.xx¹, Informix Dynamic Server 7.xx¹
Oracle 8i¹
Ingres II¹

CD code: **hp_alt**
Cut: V9.20 - 411.0543 (hptech1)
Platform: HP-UX 9.04 thru HP-UX 10.xx²
Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1
Datalinks: Informix-SE 2.10, Informix-SE 5.xx

¹ Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run.

² The Alternate port of Uniplex does not have the Datalinks that the HP-UX 11.00 version has. Uniplex recommends upgrading to at least HP-UX 11.00.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line Release Notes.

There are no known problems with this port.

IBM RS/6000

Release Note Supplement

Port Details

Machine: IBM RS/6000, Bull DPX/20, Bull Escala,
Bull Estrella, Cetia PowerEngine, Hitachi SR4300,
Motorola PowerPC

CD Code: **aix**
Cut: V9.20 - 411.1001 (bill)
Platform: AIX 4.3
LDAP Client: Included
Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1
Datalinks: Informix-SE 2.10, Informix-SE 5.xx
Informix-SE 7.xx¹, Informix Dynamic Server 7.xx¹
Oracle 8i¹
Ingres II¹

CD Code: **aix_alt**
Cut: V9.20 - 420.0541 (altas)
Platform: AIX 3.2.4 thru AIX 4.2.x ²
LDAP Client: Included
Database Supplied: Informix-SE 2.10, Informix-SE 5.05.UC1
Datalinks: Informix-SE 2.10, Informix-SE 5.xx

¹ Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run.

² The alternate port of AIX does not have the Datalinks that the main (AIX 4.3) port does. Uniplex recommends upgrading to at least IBM AIX 4.3.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line Release Notes.

Tape Install/Upgrade

The 8mm tape is low density (2.3 GB) format written using an Exabyte drive in variable blocksize mode. Use SMIT to check that your drive is set to variable mode (blocksize=0 in SMIT) if you have trouble reading the tape.

Uniplex Windows Shutdown

Using the "Exit Uniplex Windows" shutdown dialog's Restart button a second time can fail with the error:

```
X Error: BadValue.
```

Uniplex reference: UXW:33885.

Uniplex Windows under AIX 4.3

Uniplex releases prior to UBS V8.00 used the XDesktop interface that was supplied with earlier (3.2.5 and below) versions of AIX. Since then, Uniplex Windows has a desktop-independent interface and the XDesktop interface is no longer supplied with AIX.

If you are upgrading from a version of Uniplex prior to version 8.00 you will discover that Uniplex Windows now runs independently of a Desktop. It is recommended that you should perform a clean install on the new platform, otherwise the **uxwindows** command may still attempt to load the AIX 3.2.5 desktop, reporting errors such as program **uxdt** or **xdt3** not found.

Linux

Release Note Supplement

Port Details

Machine:	Intel x86/Pentium
CD Code:	linux
Cut:	V9.20 - 400.1000 (dingley)
Platform:	Red Hat Linux 7.x ² S.u.S.E. Linux 7.x ²
LDAP Client:	Included
Database Supplied:	Informix-SE 2.10, Informix-SE 5.10.UC ¹ ³
Datalinks:	Informix-SE 2.10, Informix-SE 5.xx Informix-SE 7.xx ¹ , Informix Dynamic Server 7.xx ¹ Oracle 8i ¹ Ingres II ¹

¹ Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run.

² Uniplex supports the Linux 2.0/2.2 kernel. Uniplex was ported to Red Hat Linux 7.0 using the libc6 C library and kernel 2.2.5-15. It should run with other Linux versions as long as they include at least the libc6 C library and a 2.0/2.2 series kernel. Uniplex will not run with C libraries prior to libc6.

³ The Informix 5.10 Database requires the iBCS module. See the Port-Specific notes for details.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

File Manager Restrictions

The File Manager is configured to use the Informix-SE 2.10 database engine since the Informix-SE 5.10 engine cannot be used with a 2.4 series linux kernel. This results in two minor restrictions in File Manager:

- The maximum path name for indexable directories has been reduced from 255 to 116 characters. Directories with longer path names will not be indexed but can be navigated around. (Ref: FOL:33876)

Using a string longer than 64 characters in the Folder field of the Find->Search Index form fails with 'Cannot Declare cursor' (Ref: FOL:33877)

iBCS Compatibility Mode

The iBCS (Intel Binary Compatibility Module) needs to be installed and enabled in order to run the File Manager and Database with the Informix-SE 5.10 Database supplied with Uniplex. This can be linked permanently into the kernel or enabled manually by the following command, run as root:

```
insmod iBCS
```

- ✎ *You will need to use a version of iBCS that supports Symmetric Multi-processing (SMP) if you are using Uniplex on a system with more than one processor. Request an SMP version of iBCS from your Linux distributor or download the source from a Linux mirror site and recompile using the instructions in the iBCS README file if this is the case.*

PS1 Setting in Bash Shell

The value of the PS1 prompt is reset every time a new shell is spawned if it is set in /etc/bashrc. In addition, the value of PS1 is not inherited. This

means that shell escapes from Uniplex show the default prompt from `/etc/bashrc` (if it is set there) or will just show 'Uniplex \$', even if the value of `PS1` has been changed. This does not affect the operation of Uniplex beyond this behavior.

Installing from Linux Console

If installing and/or using Uniplex from the Linux Console, set the `TERM` variable to 'Linux' or 'linux' for best results.

Caldera/SCO OpenServer/UnixWare Release Note Supplement

Port Details

Machine: Intel x86/Pentium

CD code: sco
Cut: V9.20 - 411.1006 (malta)
Platform: OpenServer 5.0.x¹, SCO UnixWare 7
Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1
Datalinks: Informix-SE 2.10, Informix-SE 5.xx
Informix Dynamic Server, Informix-SE 7.xx²
Ingres II²

CD code: sco_alt
Cut: V9.20 - 412.0542 (french)
Platform: SCO Unix 3.2, SCO ODT 3.0
Database Supplied: Informix-SE 2.10, Informix-SE 5.05.UC1
Datalinks:³ Informix-SE 2.10, Informix-SE 5.xx

¹ This version of Uniplex was ported using the SCO UDK to UnixWare 7.1 , but has been fully validated for operation under SCO OpenServer 5.0.5 with the SCO UDK Compatibility Module.

² Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run. A Datalink for Oracle 8i is not currently available for this port.

³ The Alternate version of Uniplex does not have the Datalinks that the SCO Openserver 5.05 version has. Uniplex recommends upgrading to at least SCO OpenServer 5.0.5 or SCO UnixWare 7.1.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

SCO UDK Required

To run this software on SCO OpenServer 5 or above, and on older versions of UnixWare, you must ensure that the **UDK Compatibility Module** is installed. While this is the default on OpenServer 5.05, it is not installed by default on OpenServer 5.06. This module is available as a free download from:

<http://ftp.sco.com/udk/openserver5/OSRcompat.<ver>.pkg.Z>

See the SCO Web site at:

http://osr5doc.sco.com:457/topics/osrcompat_intro.html

for more details

Line Draw Problems

Uniplex menus display spurious characters instead of line graphics after a default installation of Uniplex on OpenServer 5 due to changes made by SCO to the console code set. The following steps will invoke a code set that includes line draw characters for running Uniplex on the console with **TERM** set to **ansi** or **ansicolor**:

- 1 Log in as root, then run **scoadmin international**.
- 2 Select **Settings/Codeset/Internal**.
- 3 Change the setting to **ASCII**. This will also change the console codeset to IBM437.
- 4 Select **File/Save** to save the option.
- 5 Exit and reboot the server.

- ✎ *This operation changes the TERM setting to "ansi-437". Change it to "ansi" or "ansicolor" before running Uniplex.*

File Manager Problem under Xterm

If you use the 'xterm' Tcap definition as supplied, screen corruption will occur when calling the File Manager. This is due to an incorrect screen size setting at compile time. To remedy this, after installing, run the following command while logged on as root:

```
uniplex -run syscomp -v xterm
```


IBM/Sequent Symmetry Release Note Supplement

Port Details

Machine: IBM Sequent Symmetry, Unisys U6000/7x-8x

CD code: **sequent**

Cut: V9.20 - 312.1004 (stilton)

Platform: DYNIX/ptx 4.2.3¹, 4.4.1¹

Database Supplied: Informix-SE 2.10, Informix-SE 5.03.UC3²

Datalinks: Informix-SE 2.10, Informix-SE 5.xx
Oracle 7 and Oracle 8i³

¹ This version of Uniplex was ported to DYNIX/ptx 4.2.3, but has been validated for operation under DYNIX/ptx 4.4.1.

² Uniplex can be run with Informix Version 7.2x using the Informix Relay Module feature.

³ Datalinks for Informix 7 and IngresII will be released at a later date when Uniplex is re-reported to PTX 4.4.x

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

Problems with Alarms and Mail Notifications in DYNIX/ptx 4.4.1

Notifications are not handled properly by default due to a change in the device naming conventions in DYNIX/ptx 4.4.1. This manifests itself by the following behavior:

Any notification, including New Mail notifications, printer messages and Time Manager events will fail to display in the 'Uniplex Full Screen' application mode (using line draw and with feedback prompts). Instead, notifications will be delivered directly to the screen in asterisked boxes, as if the user was running a non-Uniplex application.

Uniplex reference: PSR 34009

Siemens Nixdorf RM400

Release Note Supplement

Port Details

Machine:	Siemens Nixdorf RM400
CD code:	sni
Cut:	V9.20 - 433.1007 (eric)
Platform:	Reliant Unix 5.43, 5.44 ¹
Database Supplied:	Informix-SE 2.10, Informix-SE 5.10.UC1
Datalinks:	Informix-SE 2.10, Informix-SE 7, Informix Dynamic Server 7.xx ¹

¹ This version of Uniplex was ported to Reliant Unix 5.43, but has been fully validated for operation under Reliant Unix 5.44 with the patch SIN4B063.

² Uniplex can be run with Informix Version 7.2x using the Informix Relay Module feature.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

Reliant Unix 5.44 Patch Required

Running the Uniplex spreadsheet under a release that does not include the patch ref: SIN4B063 will reduce floating point precision to five decimal places.

- ✎ *The Uniplex Spreadsheet normally uses sixteen decimal places of precision.*

Sun SPARC

Release Note Supplement

Port Details

Machine: Sun SPARC

CD code: **solaris**

Cut: V9.20 - 402.1003 (swing)

Platform: Solaris 2.7 (SunOS 5.7)

Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1

Datalinks: Informix-SE 2.10, Informix-SE 5.xx

Informix-SE 7.xx¹, Informix Dynamic Server 7.xx¹

Oracle 8i¹

Ingres II¹

CD code: **sol_alt**

Cut: V9.20 - 420.0547 (vic)

Platform: Solaris 2.4 (SunOS 5.4)

Database Supplied: Informix-SE 2.10, Informix-SE 5.05.UC1

Datalinks: Informix-SE 2.10, Informix-SE 5.xx

¹ Informix-SE 7.xx, Informix Dynamic Server 7.xx, Oracle 8i and Ingres II require the optional Datalinks Module to run.

² A version of Sun SPARC that was ported to Sun Solaris 2.4 is also available. This platform does not have the Datalinks described above and will be discontinued in the next release. Uniplex recommends upgrading to at least Sun Solaris 7.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

Running Uniplex Windows

To run Uniplex Windows on a Sun SPARCStation X Windows display, set the environment variable 'UXENVIRONMENT' to 'suncolor' or use 'suncolor' as the final argument to the `uxwindows` command.

Running Uniplex Windows on a system that does not have the Motif Window Manager will result in the message

```
...UAP/cmds/uniplex.start: mwm: not found
```

on the invoking terminal. To prevent this, use the '-manager' option when invoking `uxwindows`, eg.

```
uxwindows -manager suncolor
```

Error Message when Opening Uniplex Windows

Warning messages (which can be ignored) appear in the terminal window from which **uxwindows** was run every time a new Uniplex Window is opened of the form:

```
Warning: Cannot convert string "<Key>Escape,_Key_Cancel" to type  
VirtualBinding
```

NCR 3000

Release Note Supplement

Port Details

Machine: NCR 3000 (Intel) series

CD code: ncr

Cut: V9.20 - 451.1008 (branson)

Platform: AT&T Unix System V R4 3.02

Database Supplied: Informix-SE 2.10, Informix-SE 5.10.UC1

Datalinks: Informix-SE 2.10, Informix-SE 5.xx
Informix-SE 7.xx¹, Informix Dynamic Server 7.xx¹

¹ Informix-SE 7.xx/Informix Dynamic Server 7.xx requires the optional Datalinks Module to run.

Known Port-specific Problems

The following port-specific problems are not described in the *Known Problems* appendix of the on-line *Release Notes*.

Datalinks

Datalinks for Oracle 8 and Ingres II are not available at present. Please speak to your Uniplex sales representative if you need one of these Datalinks.