

Installing Advancing Physics AS 2000 for Network Administrators

Installation Overview – Read This First

Welcome to the *Advancing Physics AS 2000* CD-ROM InstallReadme. Please read this section first for an overview of the installation of the CD-ROM. Then follow the links to the detail provided for your particular network configuration.

Installing

There are a number of applications to install from the CD-ROM. Folio Views is the main application. It may not be necessary for you to install all the additional applications on all the machines on your network – some may be used on a single machine in a class demonstration. If they have previously surveyed the CD-ROM, the teachers in your physics department may have views on how they would like you to distribute the software. A number of supplementary Windows applications are also provided.

For most network configurations, network installation will be broken down into 3 stages:

1. **Firstly:** a Network Administrator's installation to the network hard drive. This prepares installers for the various applications on the network hard drive ready for deployment to each workstation
2. **Followed by:** deployment of the various applications onto the network workstations.
3. **Lastly:** a check that the Folio interface has been created successfully and that associations between data files embedded in the infobase and the relevant additional applications have been made correctly. We recommend stopping to check and test after your first test workstation installation, before deploying the software to the other workstations on the network.

The *Advancing Physics* Install Manager (the file InstMgr.exe in the root directory of the CD-ROM) provides more information on the various applications it can install. Hovering your mouse over the buttons in Install Manager provides more information in the left-hand pane. Please note that Install Manager autoruns on the network CD-ROMs. In Install Manager, the option **Install Advancing Physics>Folio Views and Infobase** provides 4 installation options:

1. **Network Administrator Maximum.** This is a network hard drive installation. It copies the *Advancing Physics* applications and infobase to the network hard drive. It configures the infobase, Folio Views Network Client installer and other (optional) applications for deployment from the network hard drive to each workstation.
2. **Network Administrator Minimum.** This is a shared networked CD-ROM drive installation. It copies the Folio Views Network Client installer to the network hard drive ready for deployment to each workstation.
3. **Standalone Maximum.** This is an enhanced PC installation. It installs Folio Views and the infobase on the (network) hard drive.
4. **Standalone Standard.** This is a standard PC installation. It installs Folio Views to the hard drive and configures the infobase to run from the CD-ROM.

How you use these will depend on what kind of network you run. Choose one of the following options for more detail and a suggested installation routine for your particular network configuration:

- [NT Server or Novell Server Network](#) [page 6]
- [NT Server or Novell Server Network \(using a distribution package creation tool\)](#) [page 8]
- [RM Connect Network \(using the packages provided on the CD-ROM\)](#) [page 9]
- [RM Connect Network \(create your own packages\)](#) [page 11]
- [CSE Networks \(create your own profiles\)](#) [page 13]
- [Terminal Server Network](#) [page 15]

- [Network with shared networked CD-ROM drive](#) [page 16]
- [A group of standalone PCs](#) [page 17]

For more information on installation of the additional and support applications, see the sections:

- [Special notes on the Additional Applications](#) [page 18]
- [Special notes on the Support Applications](#) [page 21]

We recommend a minimum install on the network of the main AS Folio Views application, Modellus and Scion Image.

Checking and testing

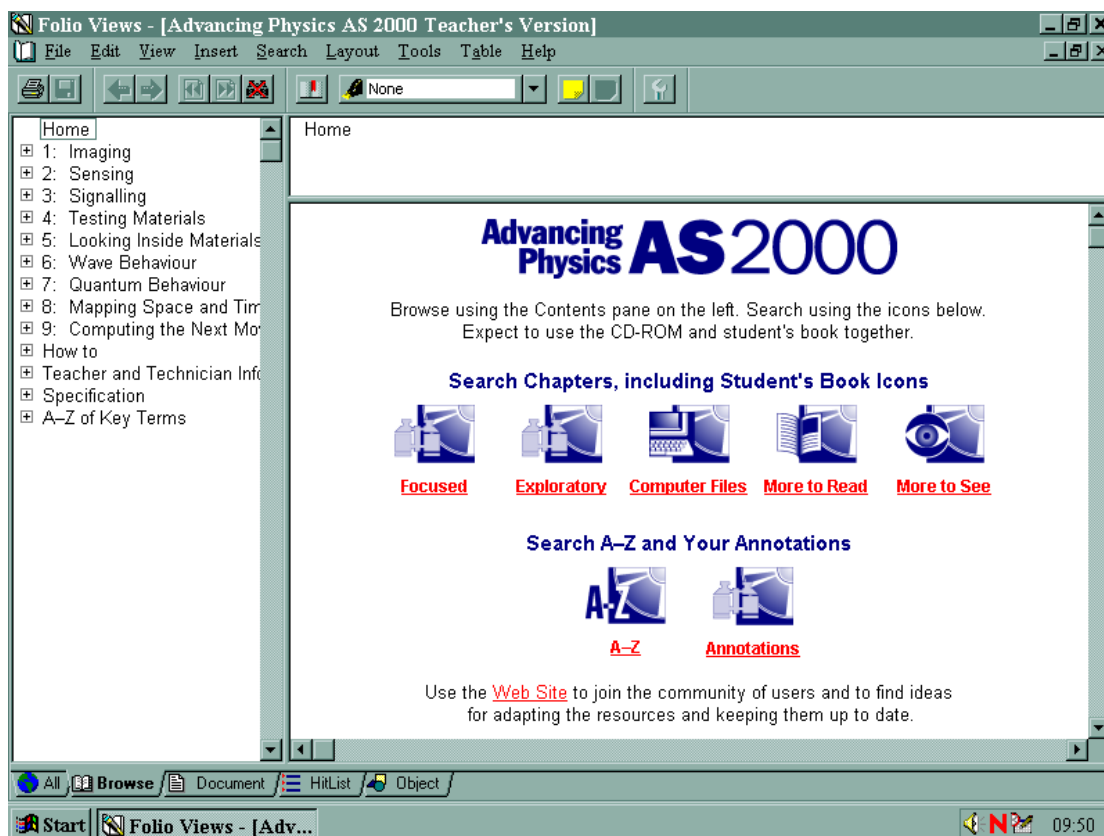
We recommend checking and testing when you have completed your installations onto a test machine and before deploying the software to all workstations. There are 2 things to check have been set up correctly:

- test that all the relevant associations between program links in the infobase and the relevant additional applications have been made
- check that the customised *Advancing Physics* Folio Views interface is presented correctly at the workstation level with a user login.

To test program link associations, start Folio Views and the infobase, use the Contents pane on the left to find the items listed below and click on the small program link icons:

- Scion Image. 1: Imaging>Resource Manager>Activities>Software Based>Image processing: The surface of Mercury
- Modellus. 2: Sensing>Resource Manager>Files>Launchable Files>How p.d. changes with current drawn
- Cool Edit. 3: Signalling>Resource Manager>Files>Launchable Files>Samples of music
- Insight. 8: Mapping Space and Time>Resource Manager>Files>Launchable Files>Distance-time graphics with Insight
- Adobe Acrobat. 2: Sensing>Resource Manager>Questions>Comprehension>Baby, it's cold outside: The uses of sensors in the care of new-born babies
- Microsoft Word. 9: Computing the Next Move>Resource Manager>Activities>Software Based>Investigating acceleration with velocity
- Microsoft Excel. 1: Imaging>Resource Manager>Activities>Software Based>Spreadsheet models: Image processing

To check that the customised *Advancing Physics* Folio Views interface is presented correctly, compare the interface on a workstation with the screen shot below. Check that the buttons on the toolbar look the same. Five tabs should be visible at the bottom of Folio Views and the Browse tab should be selected by default. This is an important check to ensure that the user's view of the *Advancing Physics* infobase is as designed and described in the 'How to' chapter in the infobase.



If everything looks okay, proceed with the deployment of software to all workstations. Then carry out some more spot checks on these workstations.

License Collection File issues

The *Advancing Physics AS 2000* CD-ROM employs Folio Views Rights Management technology to protect the infobase so that it cannot be edited by users. The important file that controls this is the License Collection File (LCF) – AdvPhySS.lcf (Student's CD-ROM) or AdvPhyST.lcf (Teacher's CD-ROM). The LCF is located in different places depending on what installation you have run – see the details provided in the descriptions of the different installation options that follow.

Here are the most likely issues surrounding the License Collection File that you should be aware of:

- All users must have Read-Write-Execute rights to the LCF.
- In the network environment, the LCF can become corrupted. This is very unusual and the usual cause is the failure of users to close Folio Views correctly, but rather to simply switch off the machine.

If users do not have Read-Write-Execute rights to the LCF or if the LCF is corrupt, users will be unable to access the *Advancing Physics* infobase (error message: "Unable to open the infobase. '[path]AdvPhySS.lcf could not be opened. (245, 1)").

If the LCF is corrupt, you can solve this problem by replacing the LCF with a copy of the original file from the CD-ROM (\Folio\Rights folder).

To give your users Read-Write-Execute rights to the LCF file, locate the file in Windows Explorer, right click on it and choose Properties from the popup menu. Amend the Security Permissions to give your users "Full Control". If you are manually copying the LCF file from

the CD-ROM to replace a corrupt LCF, first remove the Read Only attribute on the Attributes section of the General tab.

More technical information is provided in the FAQ in this CD-ROM's Install Manager. You can also find an FAQ on the *Advancing Physics* Web site (<http://post16.iop.org/advphys>) – this is updated as technical issues arise.

In certain circumstances Network Managers wish to remove the *Advancing Physics* infobase and LCF from a Network Administrator installation folder to which users do not have access, and place them in a part of the network where all users have access rights. There are 2 things that you must modify to achieve this:

1. The Folio Views and infobase desktop shortcut
The shortcut takes the form (Student's CD-ROM):

```
"P:\Apps\32BitWin\AdvPhySS\Client\Views.exe" -cSoftware\AdvPhySS "P:\Apps\32BitWin\AdvPhySS\NetMax\Folio\Nfo\AdvPhySS.nfo"
```

(Substitute AdvPhyST for AdvPhySS in three places if you are working on the Teacher's CD-ROM.) Change the third of the three components of the shortcut to give the new path of the infobase.

2. The registry key that provides the location of the LCF
The registry key that needs modifying is (Student's CD-ROM):

```
HKEY_LOCAL_MACHINE>SOFTWARE>AdvPhySS>4>Server>NfoPath>AdvPhySS
```

(Substitute AdvPhyST for AdvPhySS in two places if you are working on the Teacher's CD-ROM.) The path shown as the value data for this key is the list of places that Folio Views will look for the LCF. Therefore, if you have moved the LCF, you need to modify the path to include the new location.

Components folder issues

The Components folder installed to the network hard drive from the CD-ROM contains duplicates of graphics, model and data files embedded in the infobase. These are provided in an open format and may be needed by your users. The folder is over 100MB – if you are installing both Student's and Teacher's versions of *Advancing Physics* to the network you may like to keep only one copy of the folder but ensure that both user groups have access to it. (The folder is identical on both versions of the CD-ROM.)

Uninstalling Advancing Physics AS 2000 for Network Administrators

Uninstall information is created by the Network Administrators installations and also by the Network Client installations.

- If you want to uninstall a Network Administrators installation, choose Add/Remove Programs in the Windows Control Panel.
- If you want to uninstall a Network Client installation, choose Add/Remove Programs in the Windows Control Panel or use the uninstall shortcut created in the Start menu\Programs folder during the installation of the Network Client.

Uninstall information is created by the installer of all the other applications shipped on this CD-ROM.

- If you want to uninstall any of these installations, choose Add/Remove Programs in the Windows Control Panel. Where they have been created during installation (for example Modellus) you can also use the uninstall shortcuts on the Start menu\Programs folder.

Getting help

Your CD-ROM case booklet provides full details of where you can get help.

More technical information on installation is provided in the FAQ in this CD-ROM's Install Manager. You can also find an up-to-date FAQ on the *Advancing Physics* Web site (<http://post16.iop.org/advphys>).

NT Server or Novell Server Network

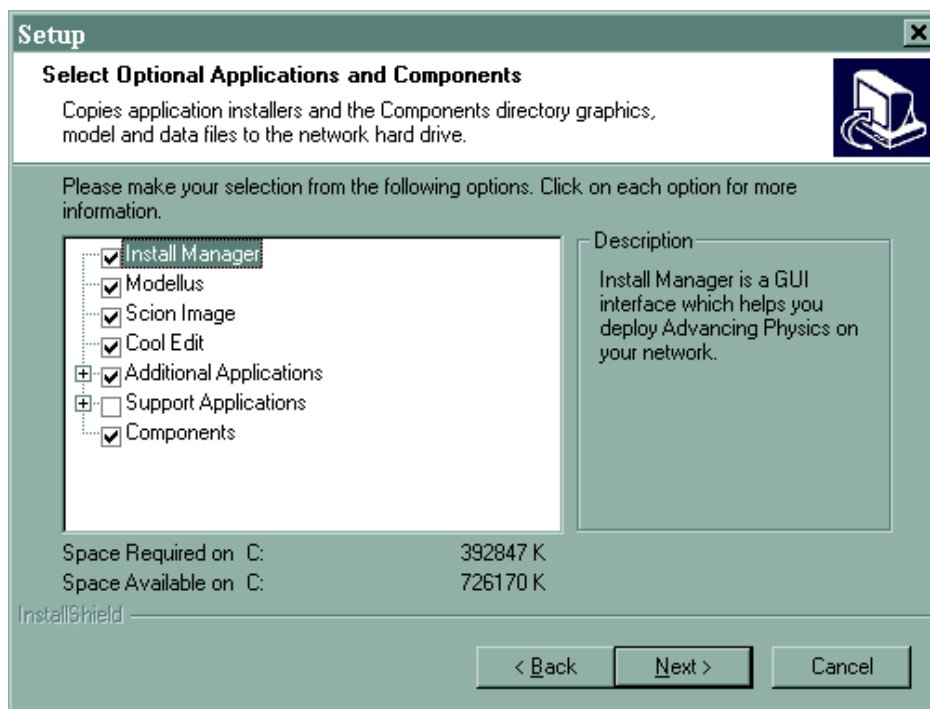
Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Maximum.

We suggest installing to the folder:

[Network path]\Advancing Physics AS Student\NetMax\ (Student's CD-ROM) or
[Network path]\Advancing Physics AS Teacher\NetMax\ (Teacher's CD-ROM).

On the installer screen entitled "Select Optional Applications and Components" you are likely to want to accept the defaults. Click on the options to bring up descriptions of their actions in the right hand pane.

- The default selected options copy over to the network hard drive installers for Modellus, Scion Image, Cool Edit and the additional applications ready for deployment to the workstations on the network.
- The Components folder, containing duplicates of graphics, model and data files embedded in the infobase, is also copied by default.
- A copy of Install Manager is also made by default to assist you in the deployment of applications onto the workstations.



Step 2: Deploy the Folio Views Network Client prepared in Step 1 to each workstation. You need to install the AS client to a new folder on the workstation hard drive.

We suggest installing to the folder:

c:\Program Files\Advancing Physics AS Student\ (Student's CD-ROM) or
c:\Program Files\Advancing Physics AS Teacher\ (Teacher's CD-ROM).

Ensure that all users are granted Read-Write-Execute rights to the license collection file \Folio\Rights\AdvPhySS.lcf (Student's CD-ROM) or \Folio\Rights\AdvPhyST.lcf (Teacher's CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

We recommend stopping to check and test after your first test workstation installation, before deploying the software to the other workstations on the network. See [Checking and Testing](#) for more information.

Step 3: Deploy any other applications you have prepared in Step 1 to each workstation (more information in “Special notes on the additional applications”).

NT Server or Novell Server Network (using a distribution package creation tool)

There are a number of tools available that can be used to note the changes made to a local representative workstation (registry, shortcuts, DLLs etc) during installation and create distribution packages or “difference packages” that may then in turn be populated to other workstations on the network. In this method the software itself is usually installed centrally onto the network server hard drive and is not actually installed on the workstation hard drive. This form of installation can often be very efficient. Examples of this kind of software distribution tool are:

- Z.E.N.works Applications Explorer – comes with Novell Netware Client.
- Sysdiff – comes with NTServer when you are running NT Workstations v4.0 and above.
- WinINSTALL from Veritas – see <http://www.veritas.com>

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Maximum.
Options as for first NT server option above.

Step 2: At a workstation (“clean” machine) representative of the network, install the Folio Views Network Client installer from the Network Administrator Maximum folder on the network hard drive **to another location on the network that is accessible to all users**. Create a distribution package for Folio Views and the infobase.

You need to install the AS client to a new folder. Do not install to the AS Network Administrator Maximum folder.

We suggest installing to the folder:

[Network path]\Advancing Physics AS Student\Client\ (Student’s CD-ROM) or
[Network path]\Advancing Physics AS Teacher\Client\ (Teacher’s CD-ROM).

Install the other applications you have prepared in Step 1 to another location on the network that is accessible to all users (more information in “Special notes on the additional applications”). Create a distribution package for each application.

Step 3: Allocate the packages to a test workstation for testing. We recommend stopping to check and test before allocating the software to the other workstations on the network. See Checking and Testing for more information.

Step 4: Ensure that all users are granted Read-Write-Execute rights to the license collection file \Folio\Rights\AdvPhySS.lcf (Student’s CD-ROM) or \Folio\Rights\AdvPhyST.lcf (Teacher’s CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

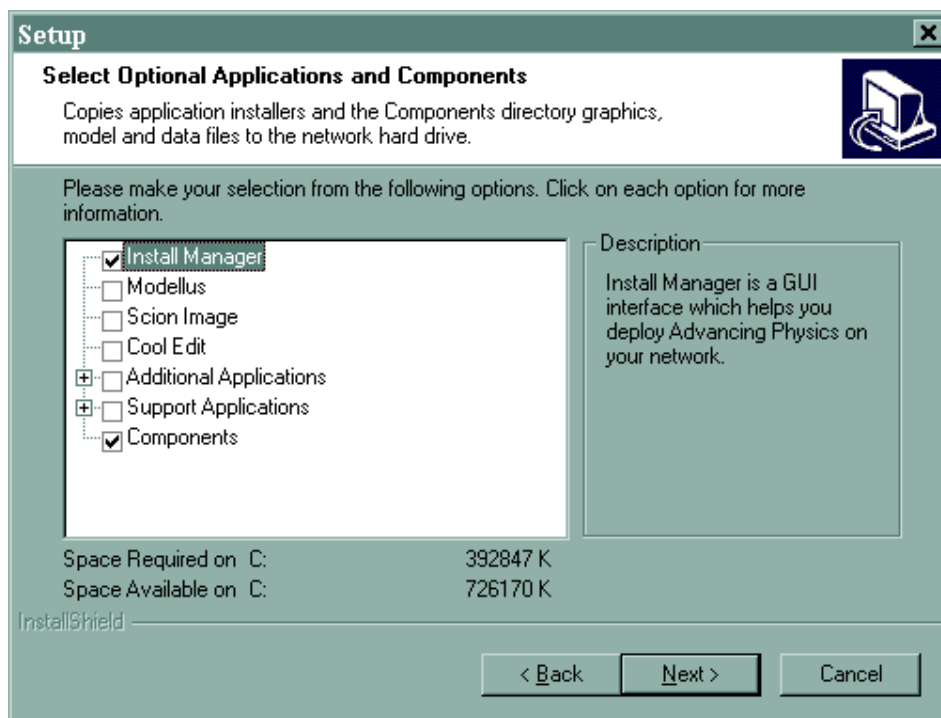
RM Connect Network (using the packages provided on the CD-ROM)

RM Connect packages are provided on the CD-ROM in the \RM Packages folder. The packages were prepared with IE4 and the RMLib2_2 package on the “clean” machine on an RM Connect 2.3 network. If you want to use the packages, follow this routine:

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Maximum.

On the installer screen entitled “Select Optional Applications and Components”, and especially if hard drive space is short, you are likely to want to uncheck all options except the Components folder option (copies duplicates of graphics, model and data files embedded in the infobase to the network hard drive). I.e. the Folio Views Network Client will be prepared at the network hard drive destination and the Components folder will be copied.

We recommend installing to the folder: P:\Apps\32BitWin\AdvPhySS\NetMax\ (Student’s CD-ROM) or P:\Apps\32BitWin\AdvPhyST\NetMax\ (Teacher’s CD-ROM).



Step 2: Locate and run the file \Folio\setup.exe inside this Network Administrator installation folder to a destination of P:\Apps\32BitWin\AdvPhySS\Client\ (Student’s CD-ROM) or P:\Apps\32BitWin\AdvPhyST\Client\ (Teacher’s CD-ROM).

Step 3: Locate and run the installers for the other additional applications that you need from the CD-ROM according to the following table (more information in “Special notes on the additional applications”).

The following table lists the packages provided and the installation pathnames against which they were created. You need to install these applications to precisely the destination folder names given (note spaces and capitalisation).

Package Name	Description	Pathname
AdvPhySS	Install Folio Views and sets up the <i>Advancing Physics AS 2000</i> Student's Version infobase. (Student's CD-ROM.)	P:\Apps\32BitWin\AdvPhySS\Client
AdvPhyST	Install Folio Views and sets up the <i>Advancing Physics AS 2000</i> Teacher's Version infobase. (Teacher's CD-ROM.)	P:\Apps\32BitWin\AdvPhyST\Client
APMod20	Installs Modellus 2.0 modelling application.	P:\Apps\32BitWin\Modellus
APSci3b	Installs Scion Image 3b image processing application.	P:\Apps\32BitWin\Scion Image
APCool96	Installs Cool Edit 96 digital sound editor.	P:\Apps\32BitWin\cool
APJava12	Installs Java Runtime Environment 1.2.	P:\Apps\32BitWin\JavaSoft\JRE\1.2
APInsi2	Installs Insight 2 Demo data capture and analysis application.	P:\Apps\32BitWin\InsightD
APVBAnim	Installs Ripple Tank and Wave Superposition VB animations.	P:\Apps\32BitWin\RippleTank and P:\Apps\32BitWin\Wave Superposition Principle

Step 4: Copy the packages provided in the \RM Packages folder to L:\packages\32BitWin. If you have "long filename" problems copying the packages using your administration machine, try copying the packages using the server CD-ROM drive. In this case copy to D:\Rmva\manage\packages\32BitWin.

Step 5: The Read Only nature of the packages can cause problems at the package allocation step, so first remove the Read Only attribute from all packages before allocating them. The simplest way to do this is to use the DOS command `Attrib -r A* /s`. This will remove the Read Only attribute (-r) from the entire contents (/s) of all *Advancing Physics* packages (A*). The file in each package that actually causes the problem is the .usr file in the folder `\station\pkgdat\[packagename]\`.

Step 6: Use the Application Wizard to allocate the packages to a test workstation for testing. We recommend stopping to check and test before allocating the software to all other workstations including the administrator machine. See Checking and Testing for more information.

Step 7: Copy shortcuts from the administrator desktop to the Science Topic. If you need to create the Folio Views and infobase shortcut manually, type the following all on one line exactly as follows (Student's CD-ROM):

```
"P:\Apps\32BitWin\AdvPhySS\Client\Views.exe" -cSoftware\AdvPhySS "P:\Apps\32BitWin\AdvPhySS\NetMax\Folio\Nfo\AdvPhySS.nfo"
```

Substitute AdvPhyST for AdvPhySS in three places if you are working on the Teacher's CD.

Step 8: Ensure that all users are granted Read-Write-Execute rights to the license collection file `\Folio\Rights\AdvPhySS.lcf` (Student's CD-ROM) or `\Folio\Rights\AdvPhyST.lcf` (Teacher's CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

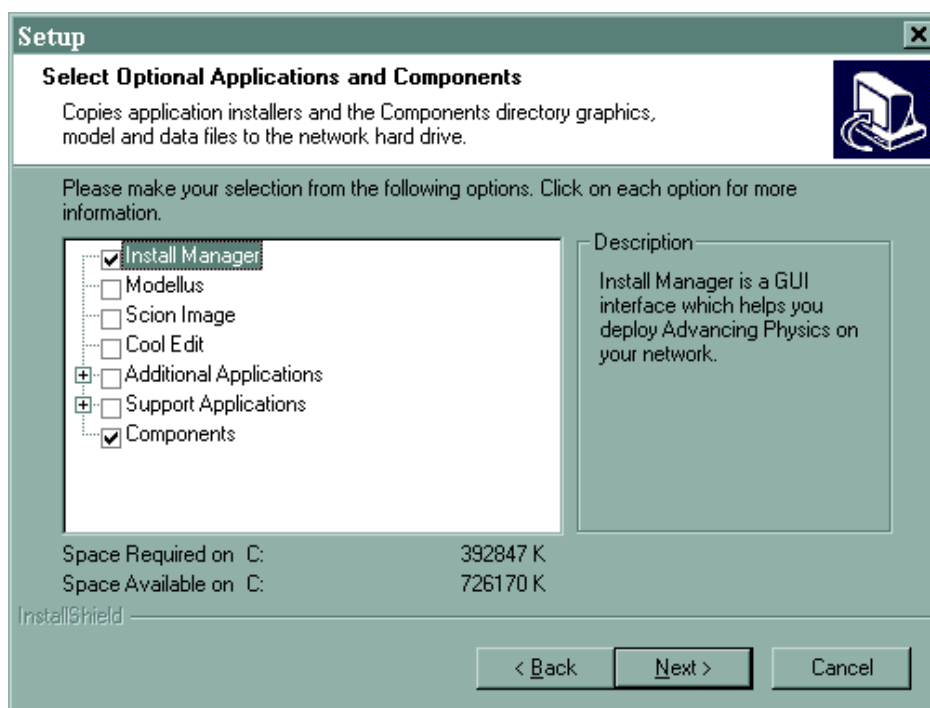
RM Connect Network (create your own packages)

If you want to create your own packages or if for some reason you are unable to use those provided on the CD-ROM, use the following routine. We recommend using the package names and destination pathnames listed in the previous section.

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Maximum.

On the installer screen entitled “Select Optional Applications and Components”, and especially if hard drive space is short, you are likely to want to uncheck all options except the Components folder option (copies duplicates of graphics, model and data files embedded in the infobase to the network hard drive). I.e. the Folio Views Network Client will be prepared at the network hard drive destination and the Components folder will be copied.

We recommend installing to the folder: P:\Apps\32BitWin\AdvPhySS\NetMax\ (Student’s CD-ROM) or P:\Apps\32BitWin\AdvPhyST\NetMax\ (Teacher’s CD-ROM).



Step 2: At a “clean” workstation, ensure that Install Manager is closed, then locate and run the file \Folio\setup.exe inside this Network Administrator installation folder and build the package for Folio Views and the infobase. You need to install the AS client to a new folder on the network hard drive. Do not install to the AS Network Administrator Maximum folder. We recommend installing to the folder:

P:\Apps\32BitWin\AdvPhySS\Client\ (Student’s CD-ROM) or
P:\Apps\32BitWin\AdvPhyST\Client\ (Teacher’s CD-ROM).

Test the software and rebuild (clean) the workstation.

Step 3: Repeat Step 2 for the other applications that you need, running the installers from the CD-ROM (more information in “Special notes on the additional applications”). We recommend building individual packages for each application because this renders them independent of each other in the event of an update of software, for example from any update CD-ROMs, from the *Advancing Physics* Web Site or from third party sources.

Step 4: Use the Application Wizard to allocate the packages to a test workstation for testing. We recommend stopping to check and test before allocating the software to all other workstations including the administrator machine. See Checking and Testing for more information.

Step 5: Copy shortcuts from the administrator or test machine desktop to the Science Topic. If you need to create the Folio Views and infobase shortcut manually, type the following all on one line exactly as follows (Student's CD-ROM):

```
"P:\Apps\32BitWin\AdvPhySS\Client\Views.exe" -cSoftware\AdvPhySS "P:\Apps\32BitWin\AdvPhySS\NetMax\Folio\Nfo\AdvPhySS.nfo"
```

Substitute AdvPhyST for AdvPhySS in three places if you are working on the Teacher's CD-ROM.

Step 6: Ensure that all users are granted Read-Write-Execute rights to the license collection file \Folio\Rights\AdvPhySS.lcf (Student's CD-ROM) or \Folio\Rights\AdvPhyST.lcf (Teacher's CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

CSE Networks (create your own profiles)

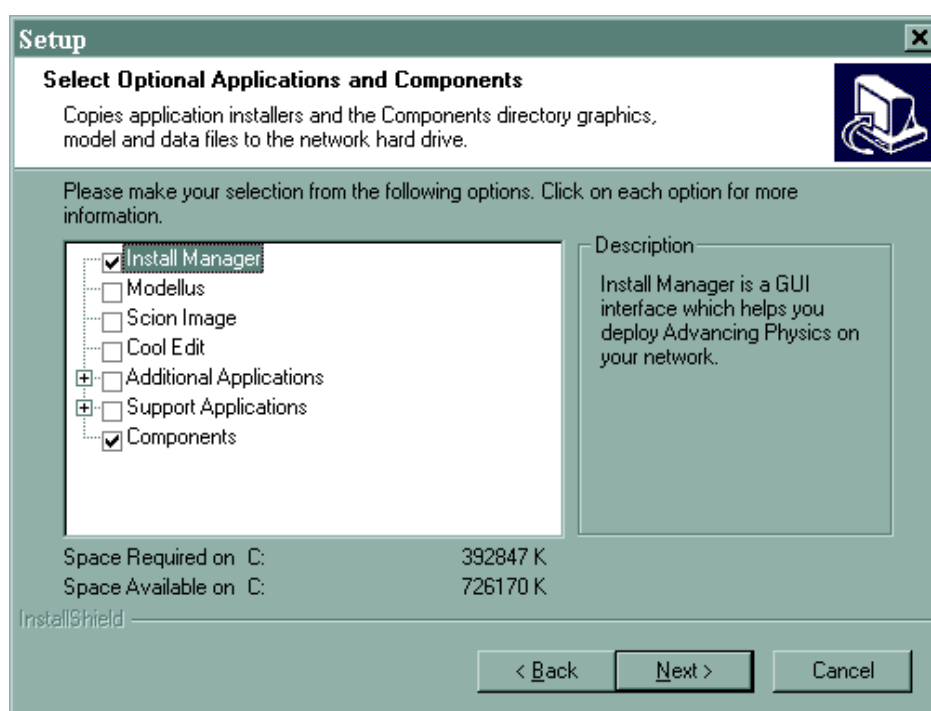
Typically CSE networks (like RM Connect networks) are administered with software applications installed on the network hard drive. The following routine assumes this.

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Maximum.

On the installer screen entitled “Select Optional Applications and Components”, and especially if hard drive space is short, you are likely to want to uncheck all options except the Components folder option (copies duplicates of graphics, model and data files embedded in the infobase to the network hard drive). I.e. the Folio Views Network Client will be prepared at the network hard drive destination and the Components folder will be copied.

We recommend installing to the folder:

[Network Drive Path]\AdvPhySS\NetMax\ (Student’s CD-ROM) or
[Network Drive Path]\AdvPhyST\NetMax\ (Teacher’s CD-ROM).



Step 2: At a workstation, ensure that Install Manager is closed, and then create a new profile in the usual way using Create Profile Wizard. Then locate and run the file \Folio\setup.exe inside the Network Administrator installation folder. You need to install the AS client to a new folder on the network hard drive. Do not install to the AS Network Administrator Maximum folder. We recommend installing to the folder:

[Network Drive Path]\AdvPhySS\Client\ (Student’s CD-ROM) or
[Network Drive Path]\AdvPhyST\Client\ (Teacher’s CD-ROM).

Complete the profile.

Step 3: Use Resource Manager to apply the profile to a test workstation for testing.

Step 4: Make the application available to users using WorkSpace Explorer. The *Advancing Physics* Folio Views desktop shortcut consists of the application .exe file (views.exe) and 2 command line parameters. The complete desktop shortcut is required in order to present the

customised *Advancing Physics* Folio Views interface correctly (see Checking and Testing for a screen shot and more details). However, the Resource Manager interface does not allow for this kind of desktop shortcut, so you need to create 2 applications:

1. An application for the *Advancing Physics* Folio Views infobase called, for example, “Advancing Physics AS”.
 - In the Executable path box on the Details page of the Application Information form enter the path to the *Advancing Physics AS* infobase inside the Network Administrator installation folder
e.g. [Network Drive Path]\AdvPhySS\NetMax\Folio\Nfo\AdvPhySS.nfo (Student’s CD-ROM).
 - Choose an Application name, for example, “Advancing Physics AS”.
 - Ensure this application is displayed on the workstations to which you have applied the profile.
2. An application for the Folio Views application .exe itself called, for example, “AP Folio AS”.
 - In the Executable path box on the Details page of the Application Information form enter the path to Folio Views inside the Network Client installation folder (e.g. [Network Drive Path]\AdvPhySS\Client\Views.exe (Student’s CD-ROM)).
 - Choose an Application name of, for example, AP Folio AS.
 - Then go to the Associations page of the Application Information form and add “nfo” to the filetypes list.
 - This application should remain hidden from your workstations.

(Substitute AdvPhyST for AdvPhySS if you are working on the Teacher’s CD-ROM.)

Step 5: Ensure that all users are granted Read-Write-Execute rights to the license collection file \Folio\Rights\AdvPhySS.lcf (Student’s CD-ROM) or \Folio\Rights\AdvPhyST.lcf (Teacher’s CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

Step 6: Install the other applications that you need to the network hard drive, running the installers from the CD-ROM and create new profiles in the usual way using Create Profile Wizard. Then apply the profiles to the test workstation for testing and make the applications available to users. You can see more information in “Special notes on the additional applications”. We recommend building individual profiles for each application because this renders them independent of each other in the event of an update of software, for example from any update CD-ROMs, from the *Advancing Physics* Web Site or from third party sources.

Step 7: We recommend stopping to check and test the test workstation before applying the profiles to all other workstations you want to run the software. See Checking and Testing for more information.

Terminal Server Network

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Standalone Maximum and install to the network hard drive. Install in the same way that you usually install software ensuring you have full administrator rights.

We suggest installing to the folder:

[Network path]\Advancing Physics AS Student\ (Student's CD-ROM) or
[Network path]\Advancing Physics AS Teacher\ (Teacher's CD-ROM).

Step 2: Return to Install Manager and install in turn the other applications you need on the network hard drive (more information in "Special notes on the additional applications").

Step 3: Ensure that all users are granted Read-Write-Execute rights to the license collection file \Nfo\AdvPhySS.lcf (Student's CD-ROM) or \Nfo\AdvPhyST.lcf (Teacher's CD-ROM) in the *Advancing Physics* installation folder. All other files may be write protected. See License Collection File Issues for more information.

Step 4: Remember to check and test your installation. See Checking and Testing for more information.

Network with shared networked CD-ROM drive

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Network Administrator Minimum.

We suggest installing to the folder:

[Network path]\Advancing Physics AS Student\NetMin\ (Student's CD-ROM) or
[Network path]\Advancing Physics AS Teacher\NetMin\ (Teacher's CD-ROM).

Step 2: Deploy the Folio Views Network Client prepared in Step 1 to each workstation.

We suggest installing to the folder:

c:\Program Files\Advancing Physics AS Student\ (Student's CD-ROM) or
c:\Program Files\Advancing Physics AS Teacher\ (Teacher's CD-ROM).

Ensure that all users are granted Read-Write-Execute rights to the license collection file \Folio\Rights\AdvPhySS.lcf (Student's CD-ROM) or \Folio\Rights\AdvPhyST.lcf (Teacher's CD-ROM) in the Network Administrator installation folder on the network hard drive. All other files may be write protected. See License Collection File Issues for more information.

Step 3: Return to Install Manager on the CD-ROM and install in turn the other applications you need to each workstation (more information in "Special notes on the additional applications").

We recommend stopping to check and test after your first test workstation installation, before deploying the software to the other workstations on the network. See Checking and Testing for more information.

A group of standalone PCs

Step 1: Run [Install Manager>Install Advancing Physics>Folio Views and Infobase] and choose Standalone Maximum and install to each PC's hard drive.

We suggest installing to the folder:

[Path]\Advancing Physics AS Student\ (Student's CD-ROM) or
[Path]\Advancing Physics AS Teacher\ (Teacher's CD-ROM).

Step 2: Return to Install Manager and install in turn the other applications you need on each PC's hard drive.

Step 3: Ensure that all users are granted Read-Write-Execute rights to the license collection file \Nfo\AdvPhySS.lcf (Student's CD-ROM) or \Nfo\AdvPhyST.lcf (Teacher's CD-ROM) in the *Advancing Physics* installation folder. All other files may be write protected. See License Collection File Issues for more information.

Step 4: Return to Install Manager on the CD-ROM and install in turn the other applications you need to each workstation (more information in "Special notes on the additional applications").

We recommend stopping to check and test after your first test workstation installation, before deploying the software to the other workstations on the network. See Checking and Testing for more information.

Special notes on the Additional Applications

This section highlights any special points about the installation of the AS CD-ROM's additional applications and provides other information relevant to their use.

Modellus

- If you are short on hard disk space, and if you do not need the sample files that come with Modellus, you can delete them to save you 11.4MB. DO NOT DELETE the \AdvPhyAS folder, which contain bitmaps and avi files associated with certain models that are embedded in the infobase.

Scion Image

- Requires DirectX. DirectX is commonly loaded on most versions of Windows. Having installed Scion Image, if you can run it without error messages, then DirectX is already installed. If you need to install DirectX, DirectX v6.0 is provided in Install Manager – choose Install Advancing Physics>Support Applications>DirectX 6.0.

Cool Edit 96

- Cool Edit 96 is a digital sound editor shipped as shareware (in a demo version). Please note that you are responsible for the registration and purchase of this unique application after a short evaluation period.
- Cool Edit 96 has now been superseded by Cool Edit 2000. Cool Edit 2000 is completely compatible with the *Advancing Physics* CD-ROMs. In order to purchase the software, you need first to download the Cool Edit 2000 demo from the Syntrillium web site and install it. Then you are in a position to pay for and register it in order to enable the full product. See <http://www.syntrillium.com> for purchase details.
- We do not recommend the Cool Edit 2000 Lite product that is also offered when you come to register the software. Most of the options on the Transform menu are missing in Cool Edit 2000 Lite and they are needed to process sounds.

Here is some more advice on how to implement Cool Edit for *Advancing Physics*:

1. Think of Cool Edit as a piece of apparatus (that could also be effectively used for KS3 and 4). You may have another piece of apparatus that will give you the same ability to capture, display and process sounds. If so, then use it. It may be software-based, or not. Multimedia sound, oscilloscopes, Audioscope, Amadeus, Soundmaster, Pasco interfaces, BBC micros all enable you to do some of the processes possible with Cool Edit. However, at the time of writing, Cool Edit is a unique product at its price tag.
2. For school use you should register Cool Edit 2000. Students working independently of the school site have the option of trying out Cool Edit 96 from the AS CD-ROM and then registering it if they want to keep it.
3. We do not recommend using Cool Edit on a network suite of PCs, due to the potential noise levels. We recommend installing it on one machine in the lab, to demonstrate how to use it, to capture sounds and to analyse them. However, students that do not have a machine at home need access to it at school in their private study time. Therefore, depending on your situation, you may need to register a second copy for an open access machine (we recommend fitting this with headphones). So the total cost to the department of deploying the potential of this software is one or two registrations.

Where to find out more:

- In the infobase, How to>Use this CD-ROM>Cool Edit>Getting started with Cool Edit gives an overview of the software.

- You can search the infobase using an Exploratory Search (chapter 3; “software-based” in the Activities box; “PC running sound processing software” in the Free Text box) to find the eight activities for which Cool Edit is recommended.

Chime

- Chime is a Netscape plugin needed to run the interactive model of ferritin in chapter 5. The plugin is not compatible with Microsoft Internet Explorer.

Insight

- A 15 minute time-limited demo version of Insight 2 is shipped on this CD-ROM. The software will run for periods of 15 minutes before a message box appears ("Demonstration version: only 15 minutes allowed"). Clicking OK ends your Insight session, but you can simply restart the program for another 15 minute period.
- Insight 2 is 16-bit software, so you are likely to see truncation of long pathnames when using any dialog boxes that list directory structures.
- You can purchase a full copy of the new Insight 3 software on Mac/Win CD-ROM with a 20% discount off the full price from the publishers. Contact info@pearsoned-ema.com for details. Insight 3 is 32-bit software.

Ripple Tank and Wave Superposition VB Animations

- Both of these applications use Active X controls and Visual Basic 6. The install programs will detect and update older versions of these libraries on your system. This should have no negative effect on the operation of your computer.
- Under certain circumstances you may get a message box warning of a version conflict during installation. This problem normally occurs when a support library program being copied is older than the one already installed on the machine. In this event we strongly recommend you choose to keep the existing version as other applications on your machine may well be using the library file.
- We recommend taking care if you ever want to uninstall these programs (choose Add/Remove Programs in the Windows Control Panel). The uninstall will offer you the chance to remove the shared library files. We recommend accepting the default, to keep the shared library files, since other programs may need them.

PhysVis

- PhysVis is provided as a useful tool but is not directly supported by *Advancing Physics*.
- PhysVis can be run directly from the CD-ROM and needs no installation to hard drive. You can run PhysVis from within Install Manager by going to Install Advancing Physics>Additional Applications and choosing the PhysVis button, or by running the file physvis.exe in the \Additional Apps\PhysVis\ folder on the CD-ROM.

WinScope

- WinScope is a PC oscilloscope provided as a useful tool, but not directly supported by *Advancing Physics*.
- WinScope can be run directly from the CD-ROM and needs no installation to hard drive. You can run WinScope from within Install Manager by going to Install Advancing Physics>Additional Applications and choosing the WinScope button, or by running the file WINSCOPE.EXE in the \Additional Apps\WinScope\ folder on the CD-ROM.

WorldMaker

- WorldMaker is available from the Web base on the *Advancing Physics* Web site (<http://post16.iop.org/advphys>) and on the *Advancing Physics A2 2001* CD-ROMs.
- WorldMaker is a 16 bit application that in network situations is recommended for installation on individual workstations.

- The *Advancing Physics* WorldMaker models are in fact small database files that are held in the \Worlds\ folder inside the WorldMaker installation folder. For the models to work, users must have write access to them, so ensure that the Security Permissions of the files are set to give your users “Full Control”.
- If you need to create a desktop shortcut for WorldMaker, ensure that you enter the WorldMaker installation directory as the Start in/Startup path. Also ensure that no trailing slash is included at the end of the path. Therefore a typical correct Start in path would be: “c:\Program Files\WorldMaker”.
- While it is possible to install WorldMaker to a network hard drive so that all users run the software from there, it is not recommended because all users then share the model files in the \Worlds\ folder. This raises concerns for several reasons. Firstly, the efficacy of database file-locking has not been tested by us with large numbers of users sharing a model file at one time. Secondly, the shared (and writable) model files can then be spoiled for all users by one individual user changing and saving the file. This is why installation on individual workstations is recommended.

Getting help

Your CD-ROM case booklet provides full details of where your can get help.

More technical information on installation is provided in the FAQ in this CD-ROM’s Install Manager. You can also find an up-to-date FAQ on the *Advancing Physics* Web site (<http://post16.iop.org/advphys>).

Special notes on the Support Applications

A number of supplementary Windows applications are shipped on the *Advancing Physics AS 2000* CD-ROM. You may find these support applications useful to read the material provided on this CD-ROM, if you do not already have comparable tools. This section provides links to web site FAQ information relevant to their use.

Adobe Acrobat

The Adobe Acrobat Reader enables you to view and print PDF documents. Information regarding configuring the Reader and updates are available from the Adobe web site at: <http://www.adobe.com/products/acrobat/>

Microsoft Word Viewer

The Microsoft Word Viewer enables you to view and print Microsoft Word Documents. Information regarding configuring the viewer and updates for new Word formats can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=wrđ&FR=0&SD=GN&LN=EN-US>

Microsoft Excel Viewer

The Microsoft Excel Viewer enables you to view and print Microsoft Excel Spreadsheets. Information regarding configuring the viewer and updates for new Excel formats can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=xlw&FR=0&SD=GN&LN=EN-US>

Java Runtime Environment

You need Java Runtime Environment (JRE) to run the three Java Applets provided in chapters 4 and 5. Please note that of these the "TheBike" applet suite provided in chapter 4 requires an additional setup before you can access its "Materials Database".

Setup instructions can be found on this CD-ROM in the directories:

\Components\Java\TheBike\Setup\Win9598\ (for Windows 95 and Windows 98) and
\Components\Java\TheBike\Setup\WinNT2000\ (for Windows NT and Windows 2000)
as ReadMe.txt.

Configuration information and updates for Java Runtime Environment can be found on the SUN Java web site at:

<http://java.sun.com/products/jdk/1.2/jre/>

Microsoft Internet Explorer 5

The latest version of Internet Explorer and information on configuring the software can be found on the Microsoft web site at:

<http://support.microsoft.com/support/default.asp?PR=ie&FR=0&SD=GN&LN=EN-US>

DirectX 6.0

DirectX is used by Scion Image to provide various drawing and printing facilities. Since Windows 95 and above commonly have DirectX 4.0 or above. If you find the version installed on your PC is older than version 6.0 it is worth considering loading version 6.0 which is shipped on this CD-ROM. The latest version of DirectX, along with compatibility information can be found at the Microsoft web site:

<http://support.microsoft.com/support/default.asp?PR=drx&FR=0&SD=GN&LN=EN-US>

Video for Windows 1.1

Video for Windows is a multimedia extension, which replaces the default Microsoft Media Player with a new version, which supports additional file formats such as the Microsoft AVI format. In most cases this software is included as standard on machines running Windows 98, NT or 2000. For users running Windows 95 the *Advancing Physics* CD-ROM contains the last released version of VFW version 1.1e. Information on multimedia formats and Microsoft Media Player can be found on the Microsoft web site at:

<http://www.microsoft.com/windows/windowsmedia/EN/default.asp>