

APEX2 and PROTEUM2

● Installation Notes

Purpose

These instructions cover the installation of APEX2 and PROTEUM2 for Windows. These software programs are designed specifically for single crystal and macromolecular structure determination using any Bruker AXS CCD detector.

Responsibility

These procedures are to be performed only by trained Bruker AXS personnel or by locally authorized persons.

Disclaimer

All configurations and specifications are subject to change without notice.

Required Items

The following Table contains a list of items required for this procedure. It is necessary to have these items available as you work with this procedure.

Item	Description
	<none as of this publication>

Required Items

Referenced Documentation

The following Table contains a list of documentation referenced in this Installation Notes. It is necessary to have this additional documentation available as you work with this Installation Notes. In the documents' part numbers, a variable revision number is indicated by a lowercase letter "x". Always use the most current revisions available.

Part Number	Title
269-0228xx	VIDEO Installation Notes
M86-Exx043	BCP/BIS Installation Notes
M86-Exx044	COSMO Installation Notes
M86-Exx056	Software Maintenance for BCP and BIS, APEX2, PROTEUM2, and PILOT Software Packages
M86-Exx092	User Manager User Manual
M88-Exx099	License Manager User Manual

Referenced Documentation

1 System Requirements

1.1 Hardware Requirements

This software requires the following hardware:

- Minimum of 512 MB of RAM. 1GB or more is recommended.
- Screen display of 1280 × 1024, 32-bit color or better.
- TCP/IP network.
- 100 MB of free disk space. 1GB or more is recommended for data frames and experiment data.
- Pentium 4, 2.0 GHz or better. Pentium 4, 2.8 GHz or better is recommended.

1.2 Software Requirements

1.2.1 Windows Operating System Requirements

- Windows XP Professional (recommended) or Windows 2000 Professional. Only US editions are supported.
- Appropriate Service Pack (SP) level for the operating system:
- Windows XP works with SP1 or SP2. (SP2 and Security patches recommended.)
- Windows 2000 works without a SP or with SP 1, 2, 3, or 4. (SP4 and Security patches recommended.)

1.2.2 Linux Operating System Requirements

- Installation under Linux requires Fedora Core 3.

2 Pre-Installation Information

The following sections will guide you through installing APEX2 or PROTEUM2 and their associated software components.

2.1 Before You Begin

In addition to the documents listed in the Referenced Documentation table, have the following materials available before beginning the installation:

- Bruker AXS Environment CD;
- Bruker AXS Software CD;
- Bruker AXS License CD;
- PAK License(s) for licensed software. During installation, it will be necessary to enter product serial numbers printed on the PAK license(s).



Bruker AXS Environment CD

These files are also available from the **Downloads > Upgrades/ Patches** section of the www.bruker-axs.com Web site.



Bruker AXS Software CD

These files are also available from the **Downloads > Upgrades/ Patches** section of the www.bruker-axs.com Web site.



Bruker AXS License CD

Software license files may also be received as email attachments from Bruker AXS.



Bruker AXS PAK License

Bruker AXS PAK licenses are shipped as hard copies and as .pdf files on the Bruker AXS License CD.

Have hard copies available as you are installing APEX2 or PROTEUM2!

2.2 Software Components Available for Installation

Software components available for installation are shown in Table 2.1.

Software	Description
Acrobat Reader	Software needed to display online documentation (usually already installed).
Bruker Environment	Basis of the software framework; contains the PostGreSQL sample database.
ImageMagick	Needed by BIS to convert image files.
Ghostscript	Needed for PostScript file display.
GSView	Needed for PostScript file display.
Cdrtools	Works as a CD burning engine for the APEX2 or PROTEUM2 sample archiving feature.
Macromedia Shockwave and Flash Players	Media player software for viewing the APEX2 Tutorials.
APEX2 Tutorials	Interactive tutorials that require Macromedia Shockwave and Flash Players.
Bruker Suite	Contains software needed to run APEX2 or PROTEUM2; sets up the PostGreSQL sample database.
Bruker AXS Executables	Installs executables (engines) needed by various APEX2 and PROTEUM2 software modules.
COSMO	Automated data collection strategy determination software; engine for APEX2 and PROTEUM2's Data Collection Strategy software module.
D8Tools	Helps users and service staff with maintenance and error diagnosis for D8 diffractometers.
Bruker Instrument Service (BIS) and Bruker Configuration Program (BCP)	Needed by APEX2 and PROTEUM2 to communicate with the instrument. BIS and BCP are required for the computer controlling the experiment. BIS and BCP are optional for a "client-only" installation in which APEX2 or PROTEUM2 connect to BIS over a network. See BCP/BIS Installation Notes M86-Exx043 and BCP/BIS Detector Calibration M86-Exx052.
VIDEO	See VIDEO Installation Notes 269-0228xx.
Bruker License	You need a software license to activate your software package(s), option(s), and feature(s).

Table 2.1 – APEX2 and PROTEUM2: available software components

2.3 Using the Correct User Account for Installation

It is recommended to use the "BrukerAdministrator" account for this software installation. If you are unable to use this account for any reason, make sure that you are logged into a user account that is a member of the "BrukerAdmin" group, and that the "BrukerAdmin" group has administrator rights within the operating system.

No domain installations are allowed. For a successful installation, you must be logged in as a LOCAL user, for ONLY the machine in question, under "BrukerAdministrator" or a similar user account.

2.4 Firewalls and Anti-Virus Programs

Make sure that all firewall and anti-virus programs are turned off before attempting installation of any software component mentioned in these Installation Notes. Firewall programs may stop internal communication between software components during the installation. Bruker-supplied computers are shipped with the Windows XP Firewall pre-configured for running Bruker software. Firewall port exceptions are: 49153, 49154, 49155, 2000, 5432, and 49160.

3 If You Are Updating

Installation procedures for the Bruker Python Environment and the Bruker Suite have been greatly simplified. If you have previous versions of APEX2 or PROTEUM2 installed, the software will detect previous versions, present sensible defaults, and let you migrate your database easily.

Follow the Installation procedure in Section 5. At the beginning of each section that requires special update procedures, a note will direct you to a section called “If You Are Updating”. Read this section carefully before returning to the installation procedure.

3.1 Preparing to Update

3.1.1 If You Are Updating from Version 1 of APEX2 or PROTEUM2

For a simple transition from Version 1 to Version 2 of APEX2/PROTEUM2, please read the following information carefully.

1. Log into an account that has administrator rights. This account should be the account that was used to install the previous (Version 7) database.
If you are not sure about the account that was used for the previous installation, use Notepad to open the file C:\bn\postgresql\data\setupuser.
The first line of this file contains the name of the account that was used for the previous installation.
2. Exit BIS and BCP if they are running.
3. Exit APEX2 or PROTEUM2.
4. For a successful migration of the Version 7 database to Version 8, that database must be properly stopped. To make sure that the database is properly stopped:
 - 4.1. Stop the database.
 - 4.2. Start the database. Wait for the “database ready” message.
 - 4.3. Stop the database.

NOTE: For a successful migration of the database, DO NOT uninstall the currently-installed Version 1 Bruker Python Environment!

Also, DO NOT uninstall older versions of APEX2 or PROTEUM2!

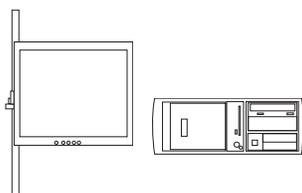
5. If you have BrukerNoniusExecutables installed, remove them by going to **Start > Control Panel > Add or Remove Programs**.
6. Additionally, the new database will be installed as a Windows Service. The database will automatically start when you start the computer and will automatically shut down when you shut down the computer.
If you are updating from Version 1 of APEX2 or PROTEUM2, you may delete the “Start Database” and “Stop Database” icons on your Desktop.

3.1.2 If You Are Updating from Version 2 Beta Tests of APEX2 or PROTEUM2

If you were a beta tester for Version 2 of APEX2 or PROTEUM2 and have an earlier version of the Python Environment installed, uninstall the Python Environment first using **Start > Settings > Control Panel > Add or Remove Programs**.

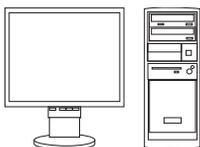
4 Installation Overview

Use Table 4.1 to proceed through installation of the various software packages. Most software installations require only that you accept the default choices. Find the column on the right-hand side of the Table that corresponds to your computer system: Server, Client, or Single PC. Install the software in order from top to bottom.



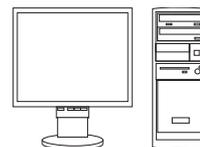
Server

In a dual-computer setup, the Server is usually located in the enclosure and runs BIS to control the instrument.



Client

In a dual-computer setup, the Client is usually located outside the enclosure and runs APEX2/PROTEUM2 to analyze data.

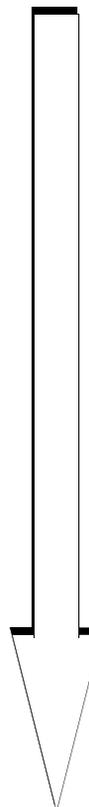


Single PC

In most installations, one computer both controls the instrument and analyzes data. A single PC setup runs BIS and APEX2/PROTEUM2 simultaneously.

Software	Notes	Server	Client	Single PC
On the Bruker AXS Environment CD:				
Acrobat Reader	Install if not already present.	Optional	Optional	Optional
Bruker Environment		Required	Required	Required
ImageMagick	At the Select Destination Directory dialog, change the destination directory to C:\bn\ImageMagick-5.5.6-Q16 .	Required	Required	Required
Ghostscript		Required	Required	Required
GSView		Required	Required	Required
Cdrtools		Required	Required	Required
On the Bruker AXS Software CD:				
Macromedia Shockwave and Flash Players	Install if not already present; required for the APEX2 Tutorials.	Do Not Install	Optional	Optional
APEX2 Tutorials	Install if you have the Macromedia Shockwave and Flash Players.	Do Not Install	Optional	Optional
Bruker Suite		Required	Required	Required
Bruker AXS Executables		Do Not Install	Required	Required
COSMO		Do Not Install	Required	Required
D8Tools		Required	Do Not Install	Required
Bruker Instrument Service (BIS) and Bruker Configuration Program (BCP)		Required	Do Not Install	Required
VIDEO		Required	Do Not Install	Required
On the Bruker AXS License CD:				
Bruker License		Required	Required	Required

IMPORTANT!
Install in this order!



IMPORTANT!
Install in this order!

Table 4.1 – APEX2 and PROTEUM2 Installation Table

5 Installation

5.1 Insert the Bruker Environment CD

1. Log into a computer account, such as “BrukerAdministrator”, that is a member of the “BrukerAdmin” group.

NOTE: The “BrukerAdmin” group must have administrator rights within the operating system.

2. Insert the Bruker Environment CD into your CD-ROM drive. The CD will automatically show a menu of the items available for installation.

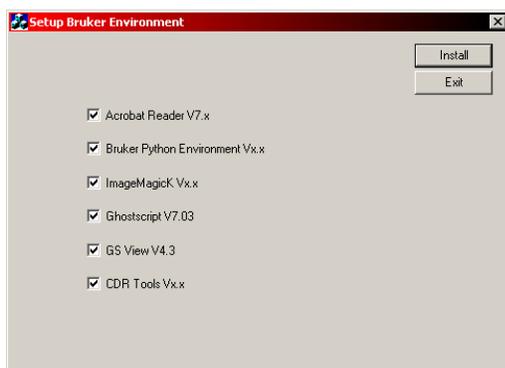


Figure 5.1 – Bruker Environment CD installation menu

3. Click the checkboxes to select all components as in Figure 5.1. If Acrobat Reader is not installed on your computer, click its checkbox.
4. Click **Install**. The Setup Bruker Environment program will begin installing the selected components in sequence.

5.2 Acrobat Reader Installation (Optional)

1. Accept all defaults. The Acrobat Reader 7.0.5 and later patches may request a reboot. Please postpone this reboot by answering “Not at this time”.

NOTE: Updating Acrobat Reader at any time after installation may interfere with the Bruker Python Environment. This issue is under investigation and is expected to be fixed in a later release.

5.3 Bruker Python Environment Installation

NOTE: If you are updating, read Section 5.3.1 before proceeding.

1. Accept all defaults.

NOTE: If your destination folder already exists, a dialog box (Figure 5.2) will pop up to confirm that you really wish to install to that folder. Usually, this means that you are updating from an earlier release. Accept defaults until you are prompted to migrate your database, and then refer to Section 5.3.1.



Figure 5.2 – ‘Folder Exists’ dialog box

5.3.1 If You Are Updating

If you are updating from Version 1 of APEX2 or PROTEUM2:

At the “PostgreSQL - Database Migration” dialog, the installer will detect the older version of the database and default to database migration.

If you want to keep your samples, select **Yes, migrate data to new database.**

If you do not want to keep your samples, select **No, do not migrate data to new database.**

If you have already migrated a Version 7 database before and have not deleted the Version 7 database folders, you will be informed that “database migration is not possible”. It is also not necessary at this point (migration will occur when the Bruker Suite is installed). Click **OK** and continue to accept defaults.

5.4 ImageMagick Installation

1. Accept all defaults with the exception of the Select Destination Directory dialog. At the Select Destination Directory dialog, change the destination directory to **C:\bn\ImageMagick-5.5.6-Q16** and click **Next >**.

5.5 Ghostscript Installation

1. Accept all defaults.

5.6 GSview Installation

NOTE: If you are updating, read Section 5.6.1 before proceeding.

1. Accept all defaults.

5.6.1 If You Are Updating

If the installer finds a previous version of GSview on your system, it will prompt you to uninstall the old version before continuing with the current installation. Click **OK** to continue.

5.7 CDR Tools Installation

1. Accept all defaults.
2. If you are prompted to reboot the computer after installing CDR Tools, do so.

5.8 Bruker Environment Installation Complete

When all items in the Bruker Environment CD's installation list have been installed, the Setup Bruker Environment program will display a window saying "All finished." Click **OK** to close the window, and click **Exit** to exit the Setup program.

5.9 Insert the Bruker Software CD

1. Insert the Bruker Software CD into your CD-ROM drive.
2. From the Desktop, right-click the "My Computer" icon and select **Explore** to launch Windows Explorer (Figure 5.3).

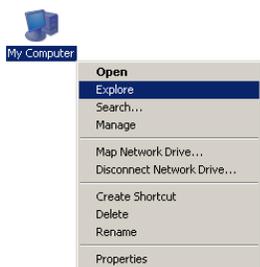


Figure 5.3 – Right-click "My computer" and select **Explore**

3. Use Explorer to navigate to the CD-ROM directory.

5.10 Macromedia Players Installation (Optional)

The included APEX2 Tutorial requires the Macromedia Shockwave and Flash players to run. If you know that you have these players or do not wish to install the APEX2 Tutorial, you can skip this step.

1. From Explorer, navigate to the **/MacroMedia** directory and double-click **mm_fl_sw_installer.exe**. The Shockwave and Flash Player installer will start.
2. Accept all defaults.

5.11 APEX2 Tutorials Installation (Optional)

1. From Explorer, navigate to the **/APEX2Tutorial** directory and double-click **APEX2Tutorial1.x.x.x.exe**. The APEX2 Tutorial installer will start.
2. Accept all defaults.

5.12 Bruker Suite Installation

APEX2 and PROTEUM2 are a part of the Bruker Single-Crystal and Powder Diffraction Suite.

NOTE: If you are updating, read Section 5.12.1 before proceeding.

1. From Explorer, navigate to the **/BRUKERSuite V.2.x-x** directory and double-click **brukersuite-200xxxxx.exe**. The Bruker Suite installer will start.
2. At the Welcome and Select Destination Location windows, click **Next >**.
3. At the PostgreSQL Database window, the installer will default to the most sensible option.
 - 3.1. For new APEX2 or PROTEUM2 installations, accept the default answer of **Install or re-install the database structure** (No older database content was detected).
 - 3.2. For new APEX2 or PROTEUM2 installations, if you are installing the Bruker Suite on a Server, no database will be used. Select **Do Nothing**.
 - 3.3. If you updating, the installer will detect the old database. Refer to Section 5.12.1.
4. Click **Next >**.

NOTE: If you selected **Install or re-install the database structure**, A pop-up window will warn you that installing the database structure will delete any existing data and ask you to confirm your choice. Click **Yes**. This warning will appear even if this is the first time the database is installed.

5. You will be prompted to enter the database service account password. If you have not changed the database service account password (in Section 5.3), accept the default of "Bruker-PostgreSQL" and click **Next >**.
6. At the Select Start Menu Folder window, accept the default of "Bruker AXS" and click **Next >**.
7. At the Ready to Install window, review your settings and click **Install**. A progress bar will appear. When the installation is complete, the progress bar window will disappear.

5.12.1 If You Are Updating

1. At the PostgreSQL Database window:
 - 1.1. For updating existing PostgreSQL installations, accept the default **Update the database structure** (Older database content was detected; this is the default if you wish to migrate your data).
 - 1.2. To destroy the existing sample database and create a new, empty sample database, select **Install or re-install the database structure**.
2. Click **Next >** and return to step 5 of Section 5.12.

5.13 Bruker AXS Executables Installation

NOTE: If you are updating, be sure that BrukerNoniusExecutables are uninstalled per step 5 of Section 3.1.1.

1. From Explorer, navigate to the **/BRUKERSuite V.2.x-x** directory and double-click **BrukerAXSExecutables1.xx.exe**. The Bruker AXS Executables installer will start.
2. Accept all defaults.
3. At the Customer Information dialog, enter your User Name and Company, as well as the serial number for APEX2 or PROTEUM2 found on your Bruker AXS PAK License. Software PAK licenses are shipped as hard copies and as .pdf files on the Bruker AXS Software License CD.

5.14 COSMO Installation

1. From Explorer, navigate to the **/BRUKERSuite V.2.x-x** directory and double-click **COSMO1-xx.exe**. The COSMO installer will start.
2. Refer to COSMO Installation Notes M86-Exx044 to continue installation. Set COSMO's installation directory to **C:\bn\Cosmo**.
3. You will be prompted to enter the serial number from your Bruker AXS PAK license. Software PAK licenses are shipped as hard copies and as .pdf files on the Bruker AXS Software License CD.

5.15 D8Tools Installation (Optional)

D8Tools, for optional installation on the computer controlling the instrument, allows for instrument maintenance and repair of minor problems.

Before installing D8Tools, identify your D8 enclosure type.

Currently, there are three versions of the D8 enclosure depending upon which Instrument Universal I/O, 2-axis indexer and 4-axis indexer boards are installed in your D8/PHOENIX controller. You can identify these boards by the numbering on the board's top tab.

You can identify your enclosure type using Figure 5.4. If you do not wish to remove the enclosure's lower front panel and have an already-existing installation of D8Tools, refer to Section 5.15.1 to use D8Tools to query the enclosure controller for the enclosure type.

1. From Explorer, navigate to the **/D8Tools** directory and double-click **Setup.exe**. The D8Tools installer will start.
2. Accept all defaults, except at the Choose Enclosure Type dialog.
3. At the Choose Enclosure Type dialog, select your enclosure type and click **Next >**. A progress bar will appear.

NOTE: If you are not using a D8 enclosure, you still must determine the enclosure type by the boards in your D8 controller.

5.15.1 Enclosure Type Identification Using D8Tools

If your system has an older version of D8Tools installed, you can use it to identify your enclosure type.

1. Run D8Tools.
2. Select **Manual Control**.
3. Enter 'RV' and press [Enter]. The D8 controller will give a response.

Response	Enclosure Type
PHOENIX V3.12 (or 4.xx)	01
D8_CTRL V1.xx (or 2.xx)	02A
D8_CTRL V3.xx	02B

Table 5.1 – Enclosure types by response to 'RV' in D8Tools

Identifying your enclosure type

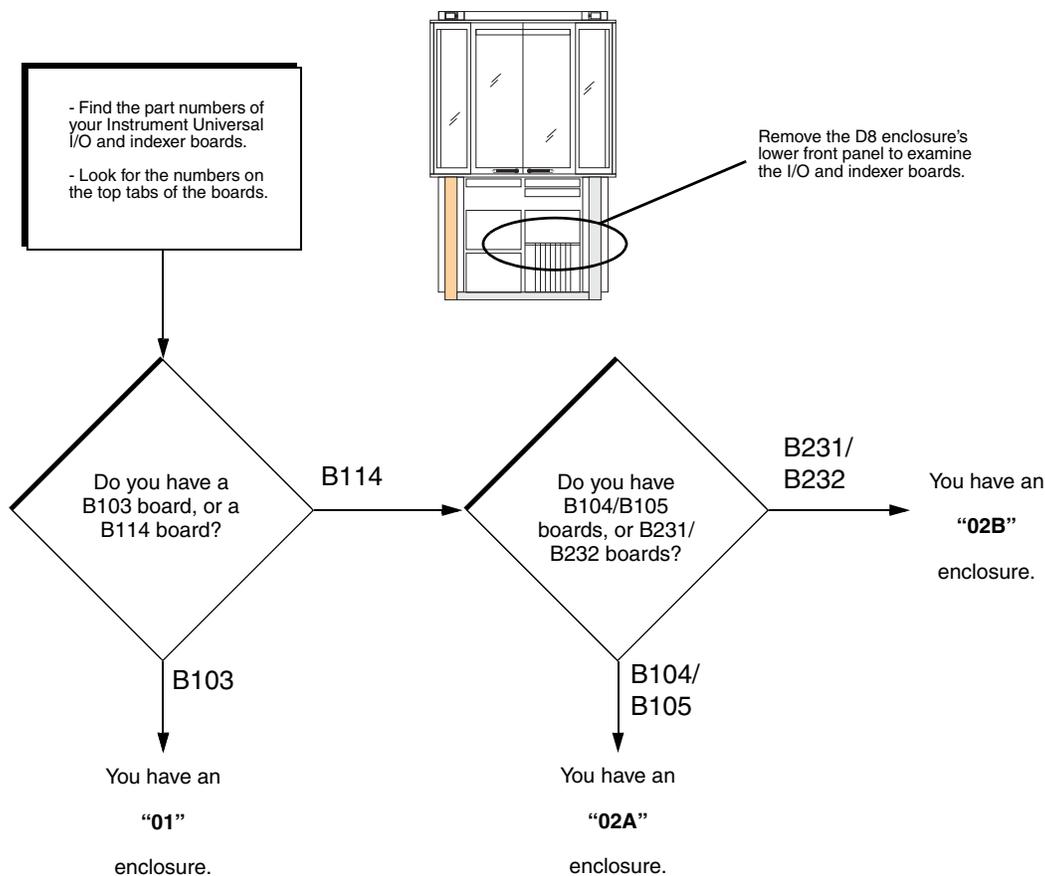


Figure 5.4 – Identifying your enclosure type

5.16 BCP and BIS Installation

NOTE: If you are updating, read Section 5.16.1 before proceeding.

1. From Explorer, navigate to the **/BCP and BIS** directory and double-click **BCP and BIS1.2.x.xx.exe**. The BCP and BIS installer will start.
2. Accept all defaults.
3. You will be prompted to enter the serial number from your Bruker AXS PAK license. Software PAK licenses are shipped as hard copies and as .pdf files on the Bruker AXS Software License CD.

NOTE: Do not confuse "1" with "l" or "0" with "o" when entering your serial number.

4. BCP will open after installing BCP and BIS. Configure and exit BCP according to M86-Exx043 BCP and BIS Installation Notes.
5. If you are prompted to reboot the computer after configuring BCP, do so.

5.16.1 If You Are Updating

Version 2 of APEX2 or PROTEUM2 requires a version of BIS from the 1.2.1 branch. Any version higher than and including BIS version 1.2.1.21 is required for APEX2 and PROTEUM2's Face Indexing software module. If you are currently using a version of BIS that is not from the 1.2.1 branch:

1. Exit BIS and BCP if they are running.
2. Make a backup copy of the folder C:\Program Files\Bruker AXS\BCP and BIS.
3. Execute the update patch **BCPandBISUpdate1.2.1.xx.exe**.

NOTE: The 1.2.1 branch of BIS also requires the installation of ImageMagick 5.5.6 Q16.

4. Use Notepad to open the file
C:\Program Files\Bruker AXS\BCP and BIS\BrukerInstrument.ini
Make sure that you have the following entry at the end of the [instrument] section:
VideoThreadEnabled=Yes
This entry is required for the collection of the video zip stream for Face Indexing.

5.17 VIDEO Installation (Optional)

NOTE: If you are updating, read Section 5.17.1 before proceeding.

1. Install VIDEO by following 269-0228xx VIDEO Installation Notes.
2. Reboot the computer after installation.
3. After rebooting, BCP will open. Configure BCP according to M86-Exx043 BCP and BIS Installation Notes.
4. If you are prompted to reboot the computer after configuring BCP, do so.

5.17.1 If You Are Updating

Version 2 of APEX2 or PROTEUM2 requires a version of VIDEO higher than v.1.x.12. If you have an older version of VIDEO installed, close VIDEO and run the update patch **VIDEOUpdate1.x.14.exe** that is available on your Bruker AXS Software CD-ROM.

6 APEX2/PROTEUM2 Configuration (Optional)

By default, the installation configures APEX2 or PROTEUM2 to operate on a single computer, using the C:\frames folder for data files, using a local sample database server, and without configuring SMTP for one-click bug reporting. For most APEX2 or PROTEUM2 users, this is acceptable and **you may skip all of Section 6**.

However, if you want to change the default BIS host, install bug reporting, or change the directory where frames are stored, then you will need to change the APEX2 or PROTEUM2 configuration.

All Bruker Suite programs are configured by modifying the file C:\bn-config.py. Follow the steps below.

NOTE: A copy of the default bn-config.py file is located at C:\bn\src\install\bn-config.py.

6.1 Open bn-config.py

1. Use Notepad to open the file C:\bn-config.py.

6.2 Edit Bishost Line

1. Edit the `bishost` line (see Figure 6.1). Remove the # and replace the `xxx.xxx.xxx.xxx` with your computer's network (DNS) name or IP address. In a single-computer installation, the name "LocalHost" (i.e., `bishost="LocalHost"`) is used by default.

NOTE: Comments start with the # symbol — remember to remove the # after you make a change to a line.

6.3 Edit Fileserver Line

1. Edit the `fileserver` line (see Figure 6.1). Remove the # and replace the `xxx.xxx.xxx.xxx` with your computer name and replace the share with your main share to receive data frames. The folder name is case-sensitive. Typically, the share name is "frames."

6.4 Edit Mailfrom Line

1. **Optional:** Edit the `mailfrom` line (see Figure 6.1). Remove the # and enter the email address of the person in charge of the Bruker instrument. On client PCs, you may enter the email address of the primary person using this computer. This contact information is appended to software diagnostics reports generated by APEX2 or PROTEUM2 and sent to Bruker. (BCP and BIS use the customer contact information within the BrukerInstrument.ini file, not the bn-config.py file).

6.5 Edit Smtphost Line

1. **Optional:** Edit the `smtphost` line (see Figure 6.1). Remove the `#` and enter your company's DNS name or IP address of your company's SMTP host (You must ask your company's network administrator for this information). If commented out, `smtphost` defaults to `LocalHost`.

6.6 Save bn-config.py

1. Save your changes and check that Notepad did not save the file with a `.txt` file extension. The file extension should be `.py`.

```

# The default bn-config.py file can be found at:
# c:\bn\src\install for MS Windows, and
# /usr/local/bn/src/install for Linux.
# Uncomment and change below values to configure your system.

Section  # Default IP address or DNS name of the computer running BIS
6.2  ───► bishost = 'LocalHost'

# Automatically connect to BIS without prompting the user.
# IMPORTANT: This is a protected keyword and may be used only if
# allowed in the system-wide configuration file by the administrator.
#autoconnect = True

# Hardware profile used by the data collection strategy planner.
#hardwareprofile = 'x8apex-euler.hrd'

Section  # Email address for messages sent from the software
6.4  ───► #mailfrom = 'user@location.com'

# IP address or DNS name of the SMTP server that will relay messages
Section  # from the software.
6.5  ───► #smtphost = 'xxx.xxx.xxx.xxx'

# DNS name or WINS name of the file server used for storing images,
# followed by the name of a network shared folder (share) on that server.
# Additional path segments are added as comma separated and quoted
# strings. None can be used as a placeholder if the file server is the
# local PC.
#fileserver = ('LAUE', 'frames')
#fileserver = (None, 'frames')
Section  #fileserver = (None, 'frames', 'subfolder') # C:\frames\subfolder
6.3  ───► fileserver = (None, 'frames')

# Local path of the network shared folder defined above (Windows only).
fileserverpath = r'C:\frames'

# Supported file name protocols. Currently these are 'smb' for
# files that are accessed over an MS Windows network and 'file' for
# local files.
universalfnprotocols = ('smb', 'file')
```

Figure 6.1 – `bn-config.py` file

7 License Installation

For APEX2 or PROTEUM2 to function properly, it requires a valid license file.

7.1 Copy the Bruker License file

1. Copy your license file “bn-license.dat” from your Bruker AXS License CD-ROM (or email attachment, if applicable) to the root directory of your C:\ drive.

7.2 Activate APEX2 or PROTEUM2 in the License Manager

1. Run the License Manager by going to **Start > Programs > Bruker AXS > Administration > License Manager**. For more information, refer to M88-Exx099 License Manager User’s Guide.
2. Under the License Manager’s Activate tab, click the checkbox for your APEX2 or PROTEUM2 version.
3. Click **OK**. The License Manager will close and the APEX2 or PROTEUM2 shortcut will appear in the Start Menu.

8 APEX2 or PROTEUM2 Startup

You are now ready to start APEX2 or PROTEUM2.

1. Log into “Bruker” or your computer user account.
2. Start BIS.
3. Start APEX2 or PROTEUM2.
4. Log in with:
User: `guest`
Password: `guest`

9 Sample Database Configuration

9.1 Adding Additional Users (Optional)

Once you have installed the Python environment, you can log into and out of Windows as any user (even domain user accounts). However, in order to connect to the sample database, the sample database must know about each computer user account that is allowed to connect to it.

1. Log in as “BrukerAdministrator”, or as the user account you used to install the Bruker Python Environment.
2. Go to **Start > Programs > PostgreSQL 8.0 > pgAdmin III**.
3. Double-click on “**Bruker PostgreSQL Service 8.0...**”
4. Enter the password. Unless changed in Section 5.3, the default password is “Bruker-PostgreSQL”. Click **OK**.



Figure 9.1 – Enter password

5. Right-click on **Users(#)** and select **New User**.

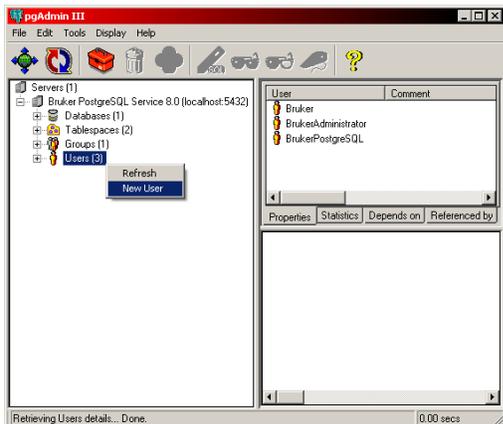


Figure 9.2 – Creating a new user in pgAdmin III

6. Enter the case-sensitive account name for your Windows users into the Username field (example “Bruker”), leave all other fields blank, and click **OK**.



Figure 9.3 – Entering user name in New User dialog

- Expand on **Groups(#)** and double-click on **Bruker**.
- Double-click on **Members** in the right panel, then click on the **Members** tab.

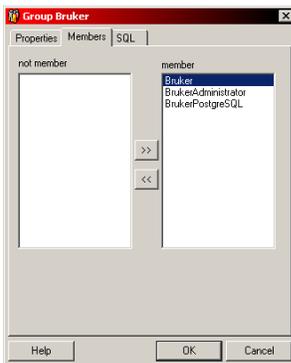


Figure 9.4 – Members tab

- Add your new account as a member of the Bruker group.

10 Installation Directories

C:

C:\bn

Bruker program installation directory

C:\bn\data-8.0

Bruker sample database

C:\bn\postgresql-8.0

PostgreSQL database program

C:\bn\src

APEX2 and PROTEUM2 (Bruker Suite)

C:\cdrtools

CDR Tools program

C:\frames

Folder for data files

C:\Program Files\Adobe

Acrobat Reader program

C:\Program Files\BrukerAXS\VIDEO

VIDEO Program

C:\Program Files\ImageMagick-5.5.6-Q16

Image Magick program

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