Installation and configuration epoScan

Summary

This document gives details of epoScan installation and configuration

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1 Introduction

This documents describes the steps to set up and configure epoScan.

To operate the scanning software refer to the ePhoenix Document Capture manual.

1.1 Audience

The intended audience is people need to know the installation and configuration parameters of epoScan. These people must

- understand the concepts of paths and directories
- know the names and pathname locations of servers and items on servers
- be able to follow the instructions in this document and successfully install and configure a default version of epoScan that matches their local environment.

There are some descriptions of advanced options included so that specialists can modify how epoScan is configured. The audience for this is

- analysts
- developers
- systems administrators.

Note:

Only those sufficiently qualified and experienced should attempt to use the advanced options to modify the default installation and configuration settings.

1.2 Overview

This document has the following general structure:

- chapter 2 gives general information
- chapter 3 covers the epoScan installation
- chapter 4 covers database installation
- chapter 5 is the scanning database installation decision chart
- chapter 6 describes the group 1 path
- chapter 7 describes the group 2 paths
- chapter 8 covers logging in
- chapter 9 describes the epoScan initial screen
- chapter 10 covers Batch
- chapter 11 covers Setup
- chapter 12 covers Admin.
- chapter 13 describes the database batch status

2 General information

epoScan has been developed by the European Patent Office (EPO) to allow the scanning of patent applications, trademark registrations, and related documents for ePhoenix systems as well as published IP documents for patent dissemination systems like BNS and espacenet.

ePHOENIX is also a product developed by the European Patent Office. It is a Java-based patent dossier management system. BNS is the European Patent Office's service for storing and delivering published patents and non-patent literature.

The epoScan installation CD comes with drivers for almost all ISIS® scanners with a SCSI interface. For some of the very large capacity scanners a separate licence may have to be acquired. All the other third party components such as

- barcode reading
- image enhancement
- ASPI32 drivers.

are included in the installation.

The epoScan product can be installed on all modern Windows platforms and it will operate on a single PC or on several machines connected to a central server. This allows the same product to be installed on a series of machines with each machine dedicated to a particular feature such as scanning and image enhancement.

3 epoScan installation

Note:

- **Full administrator rights are required on the PC in order to install epoScan otherwise certain DLLs cannot be installed.**
- **If it is intended for Firebird, Oracle, or MaxDB to be the management database for epoScan it is necessary to install it.**
- **Installation of the ASPI32 drivers (version 7.1) is required for scanning . (Read the readme.txt file on the CD for installation instructions).**

epoScan will install in the directory C:\Program Files*epoScan* by default, but any other directory can be selected. To perform the installation process

- insert the CD
- open the CD and go to *epoScan* directory
- double click on Setup.exe
- the welcome screen opens
- click on **Next**
- change destination location

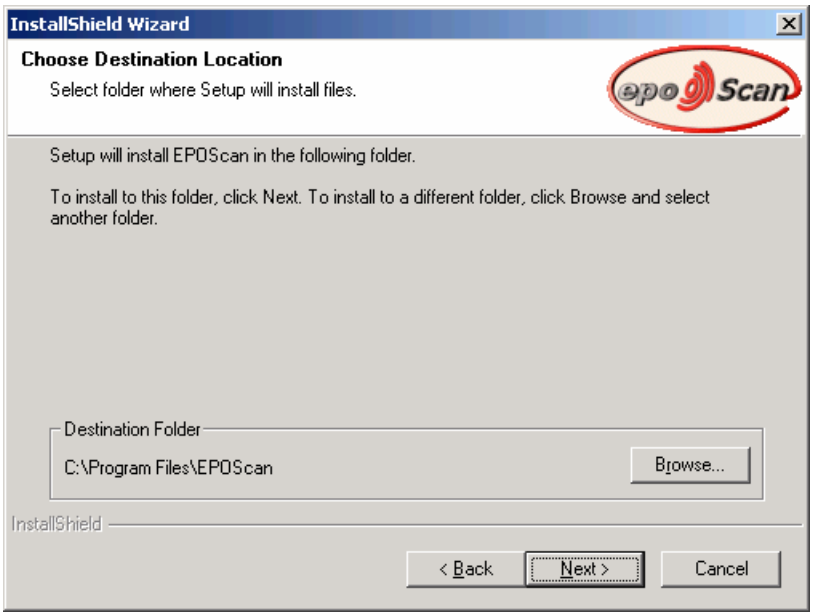

Figure 1: change destination location

- click on **Next**
- select the type of documents you intend to scan:
  - applications (for ePhoenix)
  - patents (for literature)
  - others (such as trademarks).

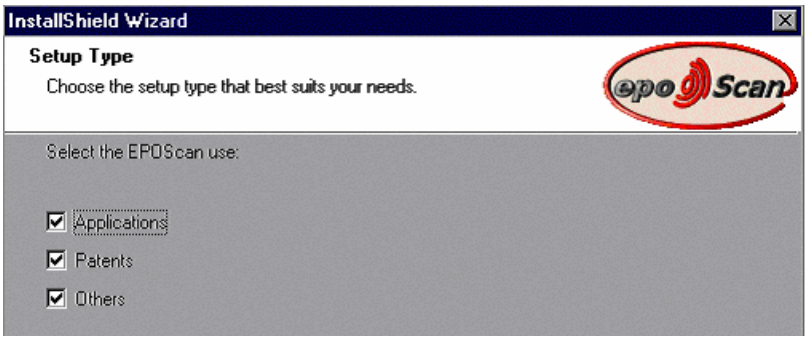

Figure 2: setup type

Note

Switching between the different types of document scanning by the user is still possible.

4 Database installation

The epoScan database is needed in order to manage the scanning process and needs to be installed. A system database is also required, to store the program settings, such as

- authorisation
- users
- databases.

4.1 System database type selection

The type of system database has to be chosen before installation of the epoScan software. The epoScan software has been built to work with four types of databases, which are categorised into two groups:

- Group 1, stored locally or on a central server, suitable for small sites with few workstations
  - MS Access (No licenses required).
- Group 2, stored on the database server, suitable for large sites with many workstations
  - Firebird (Open Source DB – no licenses required)
  - Oracle (License is required).
  - MaxDB (Open Source DB – no licenses required).

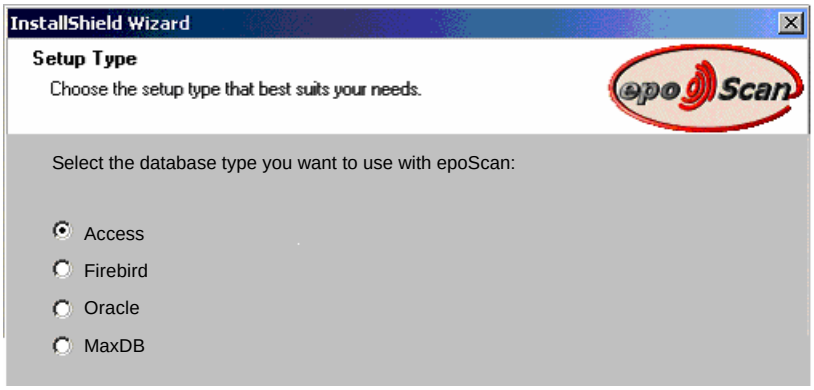

Figure 3: setup type

4.1.1 Installation with MS Access

The MS Access database is sufficient for small offices that operate one or two low or medium volume production scanners. If higher scanning volumes are expected or more scanners are installed it is highly recommended to use Firebird, Oracle, or MaxDB as the database.

If MS Access is installed on the PC then this can be used as usual to view the database tables and the contents.

During installation database templates are installed in the epoScan directory. When the installation is finished these templates can be copied to a different directory or a directory on a central server.

The available templates are

- EpoScan_app.mdb, a database for application scanning
- EpoScan_pat.mdb, a database for patent scanning
- EpoScan_oth.mdb, a database for other scanning.

4.1.2 Installation with Firebird

Firebird is an open source database and has been selected by the EPO for several of its epoline products. To view the database tables and the contents of these tables install the Firebird user interface found on the CD in \EPOSCAN\Firebird\GUI.

Before installing epoScan, Firebird must be installed on the scan server and on scanning workstation(s).

Note:

The order of installation on the client workstation is important, first Firebird and then epoScan.

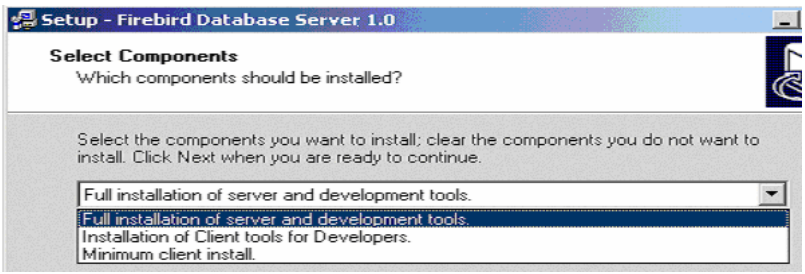

Figure 4: select components

4.1.2.1 On the server:

Open the CD and open *EpoScan* directory

Open Firebird directory

Double click on Firebird-[version]-Win32.exe

If requested to select components select **Full installation of server and development tools** for installation on the server

4.1.2.2 On the client

Select **Minimum client install** for installation on the client, which is the epoScan work station.

During installation database templates are installed in the epoScan directory. When the installation is finished these templates can be copied to a different directory or a directory on a central server.

The available templates are

- EpoScan_app.gdb, a database for application scanning
- EpoScan_pat.gdb, a database for patent scanning
- EpoScan_oth.gdb, a database for other scanning

4.1.3 Installation with Oracle

When using the Oracle database the National Office (NO) must purchase the required Oracle license.

Note:

Only those sufficiently qualified and experienced should attempt to install Oracle

There are installation instructions in the epoScan/Oracle directory. The installer must read the documents Readme.txt and EpoDB.doc before attempting an installation.

4.1.4 Installation with MaxDB

When using the MaxDB database the National Office (NO) must obtain MaxDB, which is licensed in two ways, public licence or commercial licence. Please see http://www.mysql.com/products/maxdb/

Note:

Only those sufficiently qualified and experienced should attempt to installMaxDB

There are installation instructions in the epoScan/MaxDB directory. The installer must read the documents Readme.txt and EpoDB.doc before attempting an installation.

4.1.4.1 Installing MaxDB on Microsoft Windows

Microsoft Windows 2000 SP2 or higher is required

To install MaxDB:

- Change to the maxdb-all-win-32bit-i386-imbeta-7_5_00_19 directory.
- Double-click SDBSETUP.exe To start the Installation Manager
- Choose *Start MaxDB installation*.
- Follow the instructions of the Installation Manager.
- After finishing the installation, reboot Microsoft Windows.

4.1.4.2 On the server

Install the software maxdb-all-win-32bit-i386-7_5_00_23.zip

Please see http://dev.mysql.com/doc/maxdb/instguide.html#windows for install instructions

4.1.4.3 On the client

Before installing eposcan you have to install a client ODBC driver on the epoScan workstation. To do this run odbc75.exe (EPOScan\MAXDB\ODBC driver\odbc75.exe).

5 Scanning database installation decision chart

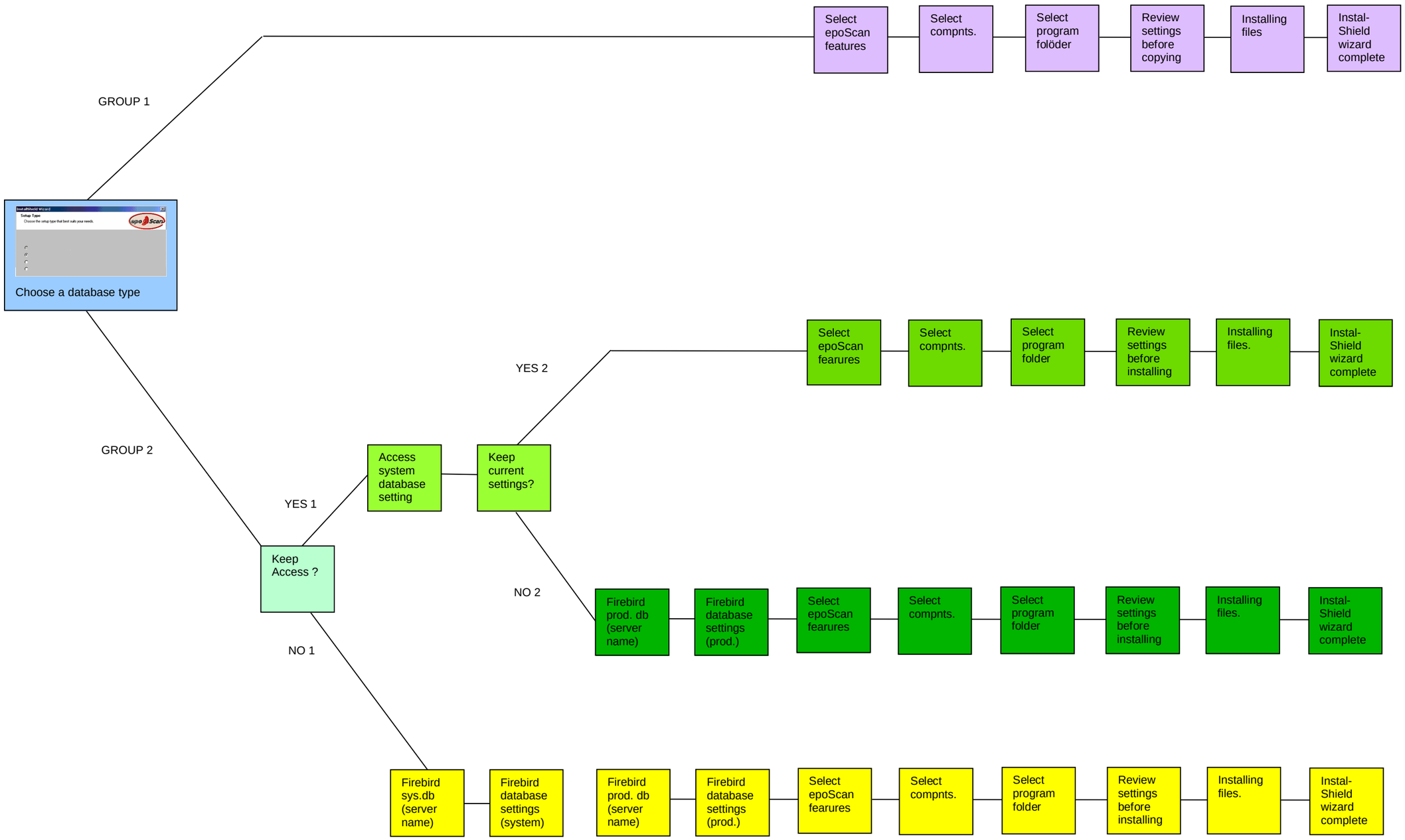

Figure 5: decision flow diagram

6 Group 1

6.1 Access

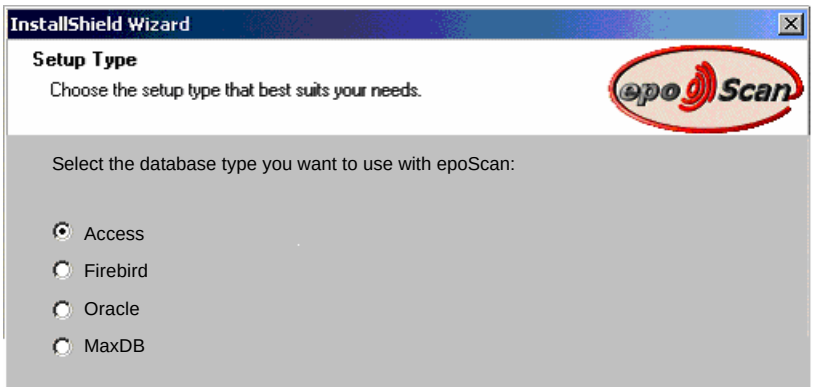

Figure 6: setup type

Click on the radio button to select the database type you want to use with epoScan. Click on **Next**.

The **Select epoScan features** screen is displayed.

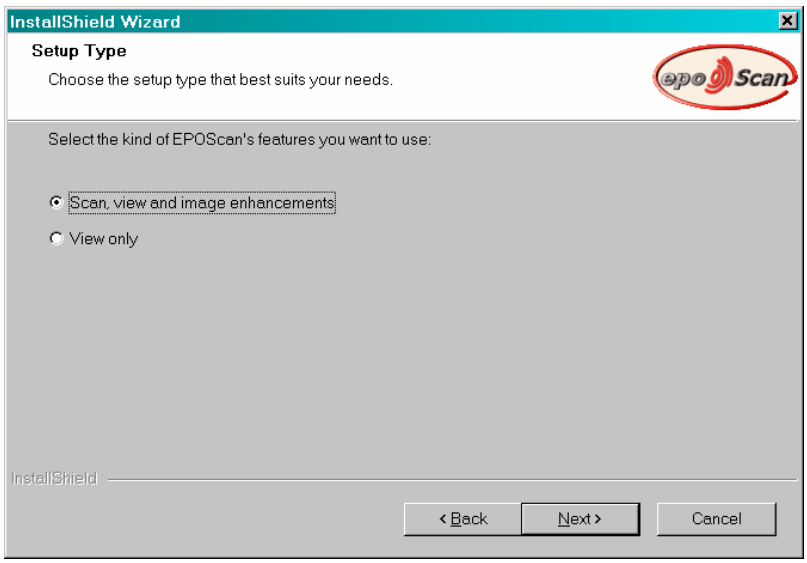

Figure 7: select epoScan features

Click on the radio button to select the features you want to use with epoScan.

Click on **Next**.

Choose **Scan, view and image enhancements**, and click on **Next**.

The **Select components** screen is displayed.

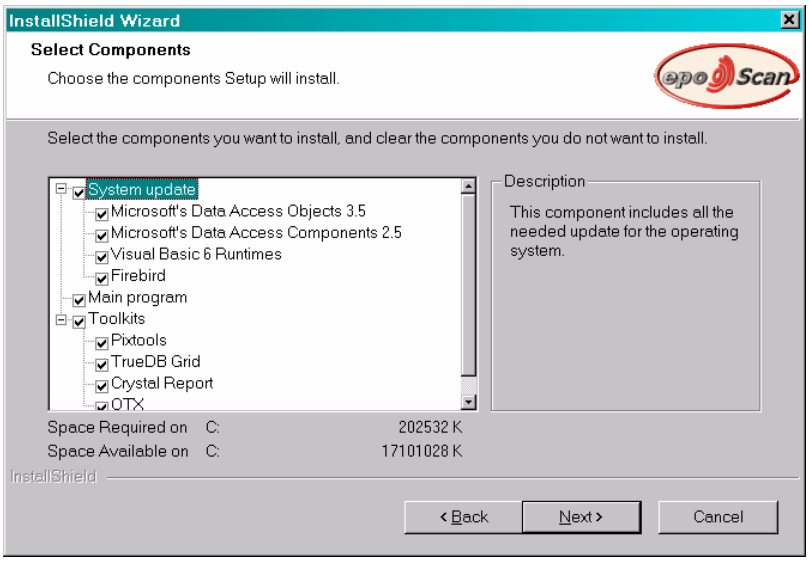

Figure 8: select components

Note:

the ticked components are the default settings. these should not be changed except by an expert user.

Click on **Next**.

The **Select Program Folder** screen is displayed.

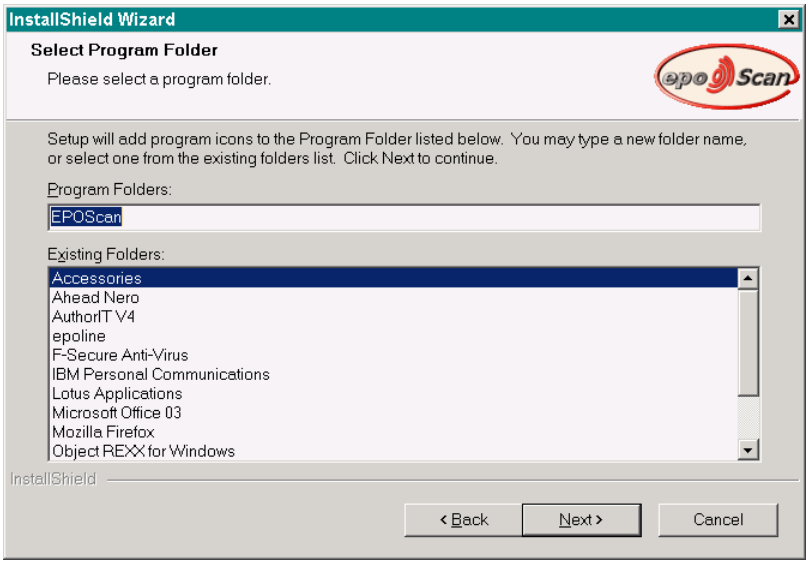

Figure 9: select program folder

Click on **Next**.

The **Review settings before copying files** screen is displayed.

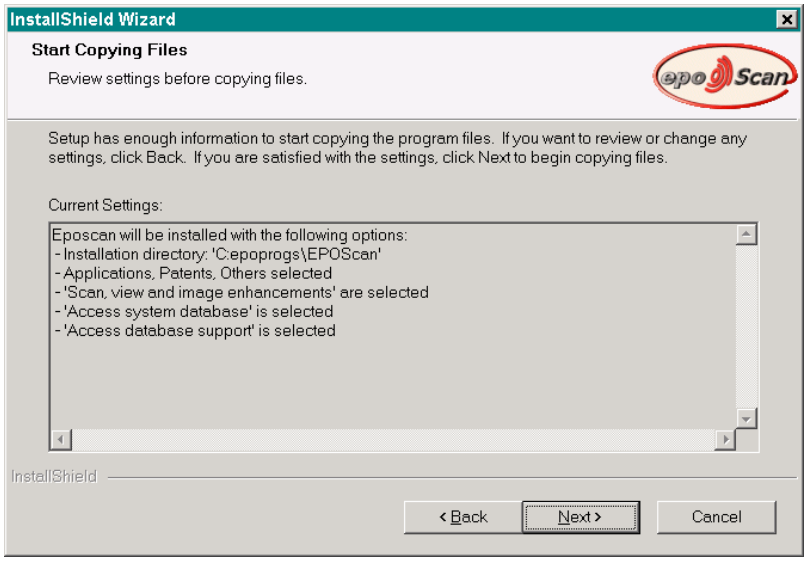

Figure 10: review settings before copying files

Click on **Next**.

The **Installing files** screen is displayed.

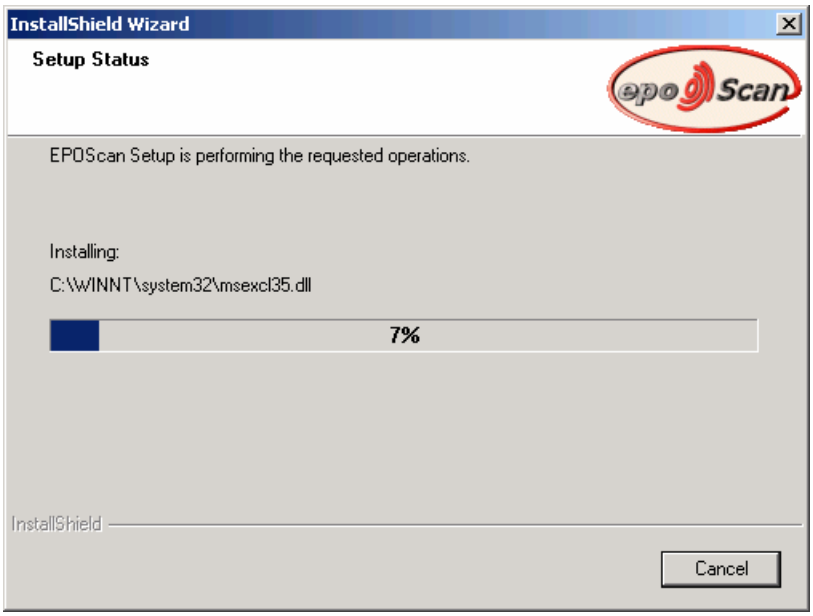

Figure 11: installing files

Click on **Next**. The setup commences. The blue bar and the percentage of setup completed is displayed.

Once the installation has completed the **InstallShield Wizard Complete** screen is displayed. Select the required option and click on **Finish**.

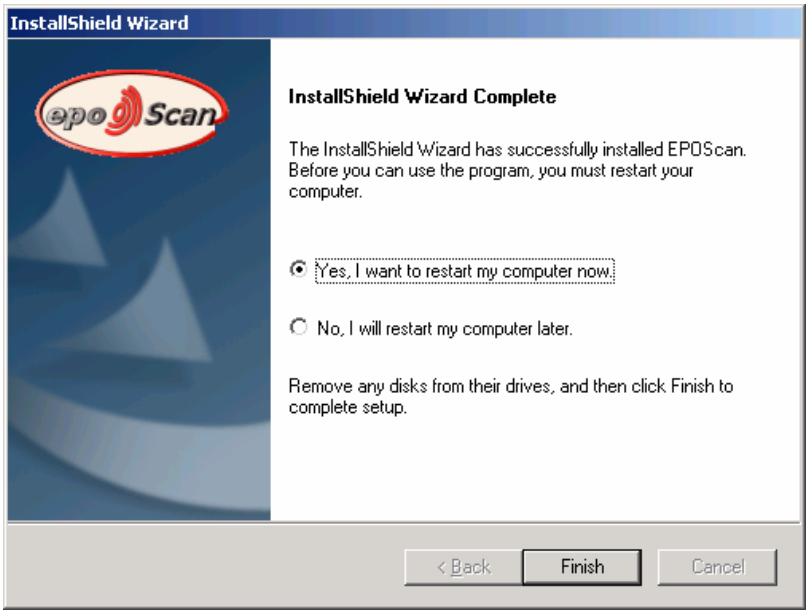

Figure 12: installation complete

7 Group 2

7.1 Firebird, Oracle, and MaxDB database options

The installation and configuration are almost identical for all three options, so Firebird has been used as an example.

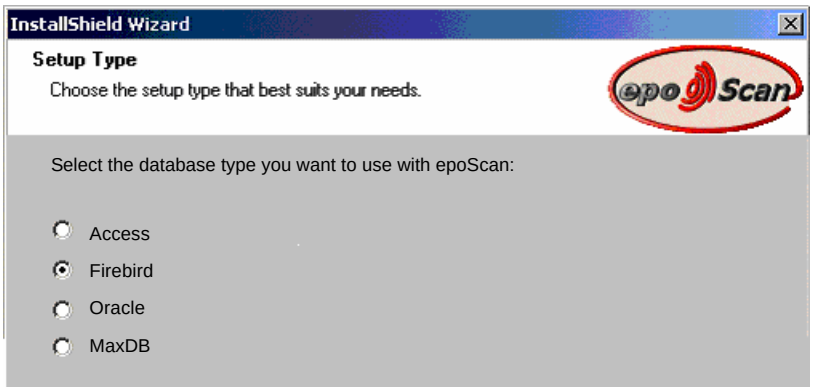

Figure 13: setup type

Click on the radio button to select the database type you want to use with epoScan. Click on **Next**. The **Keep Access: Yes** screen will be displayed.

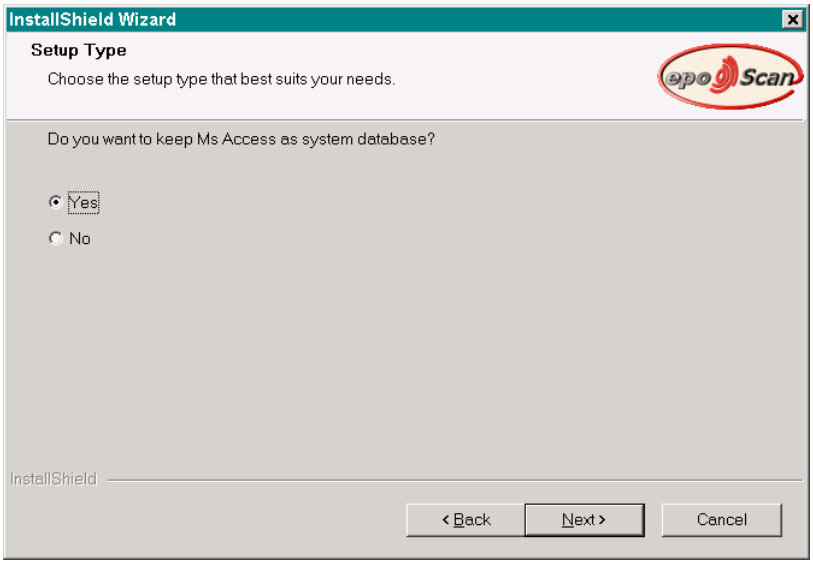

Figure 14: keep Access: yes

Select **Yes** or **No**.

If Yes was selected, go to 7.1.1

If No was selected, go to 7.1.4 No selected (NO 1)

7.1.1 Yes selected (YES 1)

Depending upon your local system environment, the database path will either be displayed and highlighted in blue, or the field will be blank. Leave the path as it is, or correct it, or enter a database path, as required.

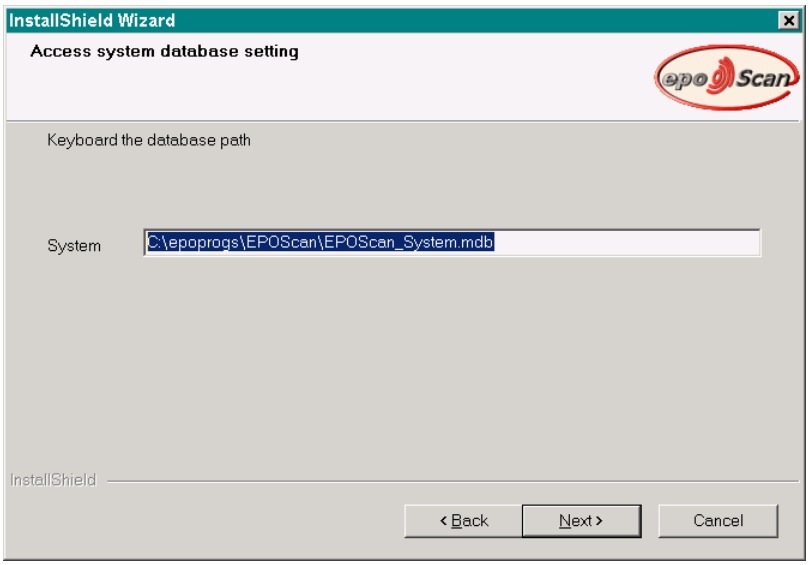

Figure 15: Access system database setting

Click on **Next**. The **Keep current settings** screen is displayed.

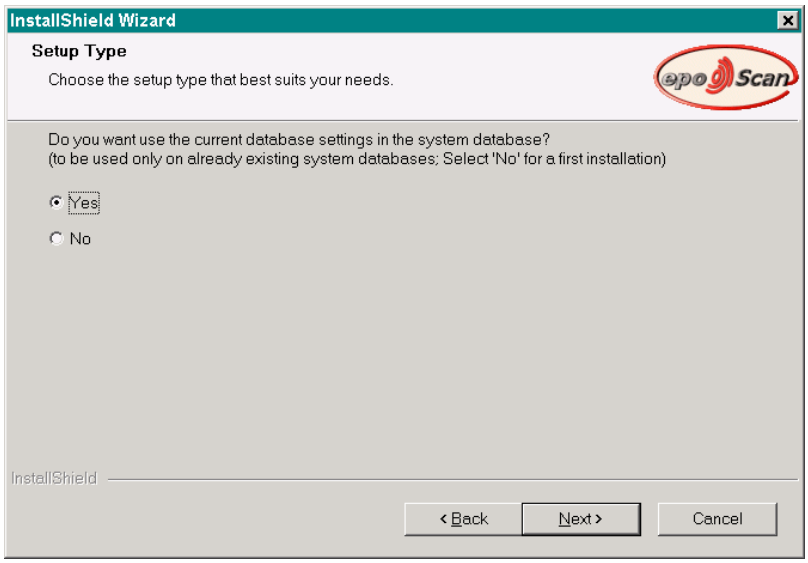

Figure 16: keep current settings

Select **Yes** or **No** and click on **Next**.

If Yes was selected, go to 7.1.2 Yes selected (YES 2)

If No was selected, go to 7.1.3 No selected (NO 2)

7.1.2 Yes selected (YES 2)

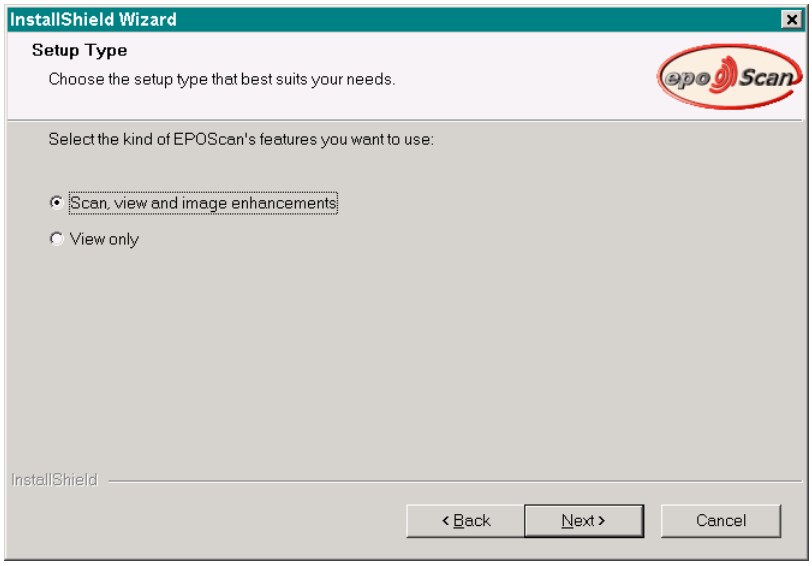

Figure 17: select epoScan features

View only is used for quality control, and so is never normally selected.

Chose **Scan, view and image enhancements**, and click on **Next**. The **Select components** screen is displayed.

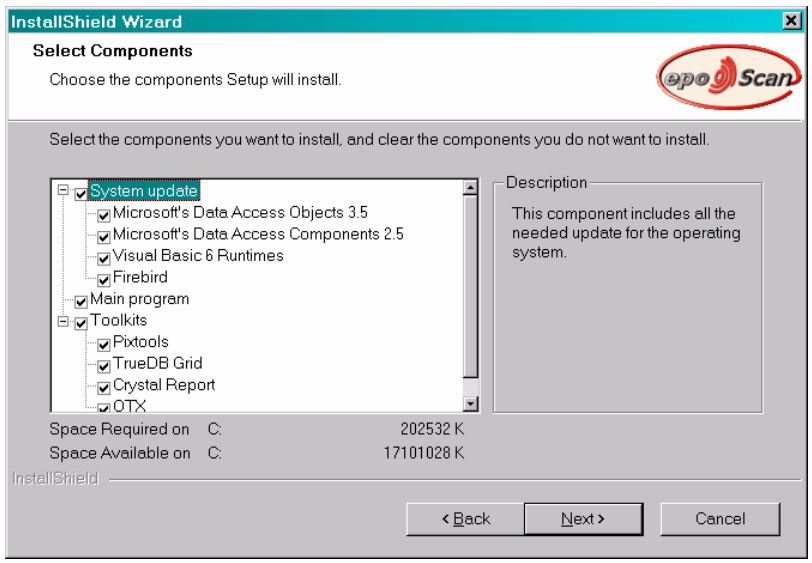

Figure 18: select components

Note:

the ticked components are the default settings. these should not be changed except by an expert user.

Click on **Next**.

The **Select Program Folder** screen is displayed.

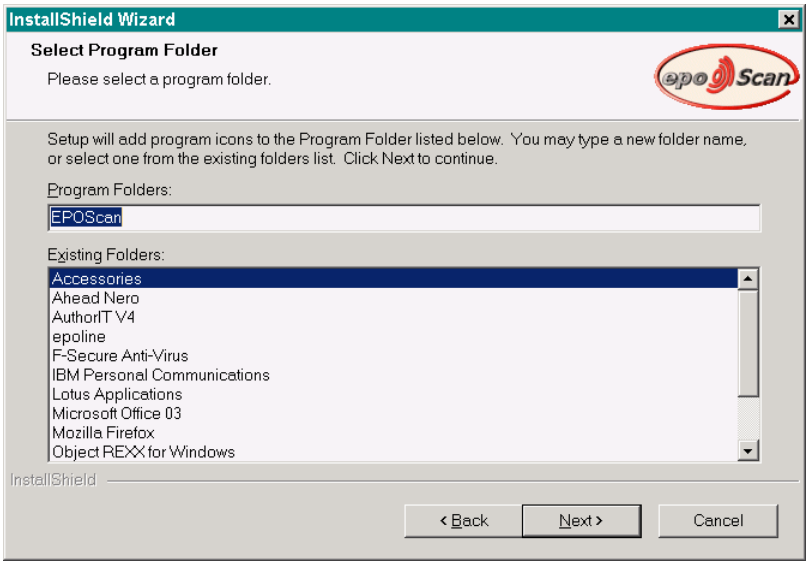

Figure 19: select program folder

Click on **Next**. The **Review settings** screen is displayed.

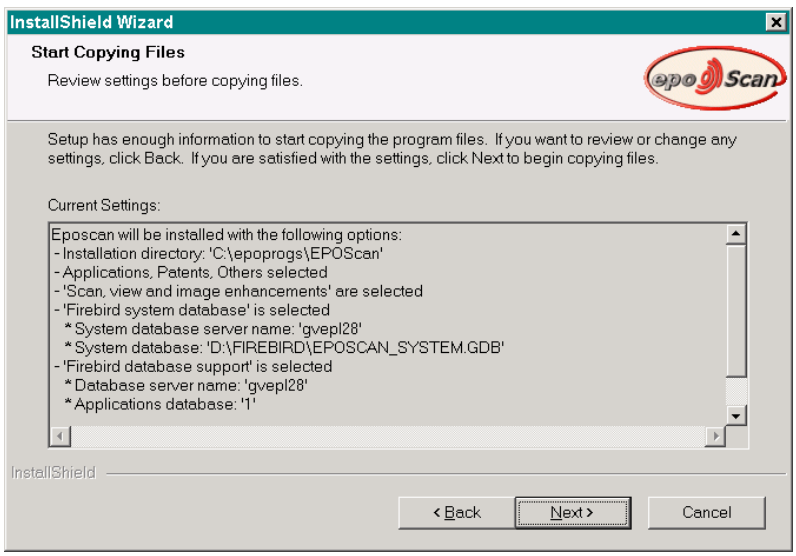

Figure 20: review settings

Click on **Next**.

The **Installing files** screen is displayed.

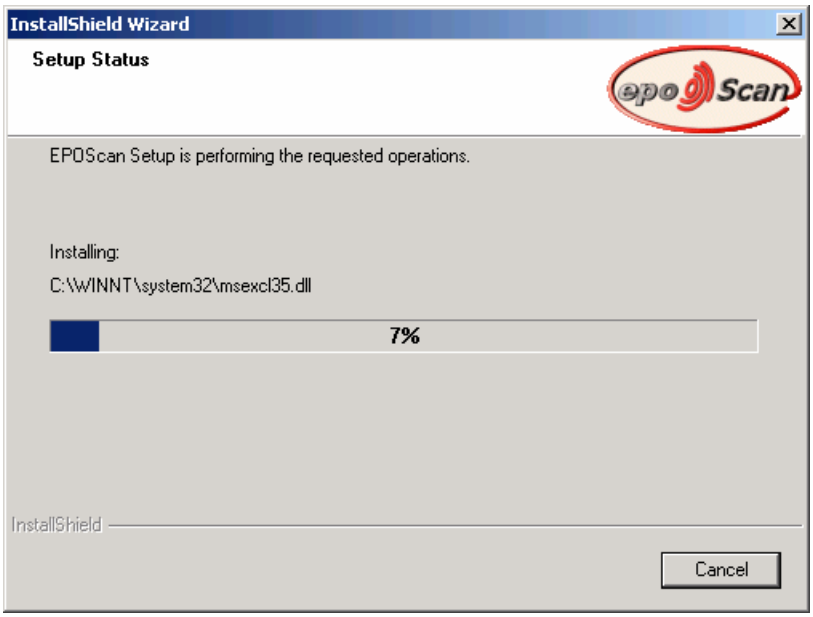

Figure 21: installing files

Click on **Next**. The setup commences. The blue bar and the percentage of setup completed is displayed. Once the installation has completed the **InstallShield Wizard Complete** screen is displayed. Select the required option and click on **Finish**.

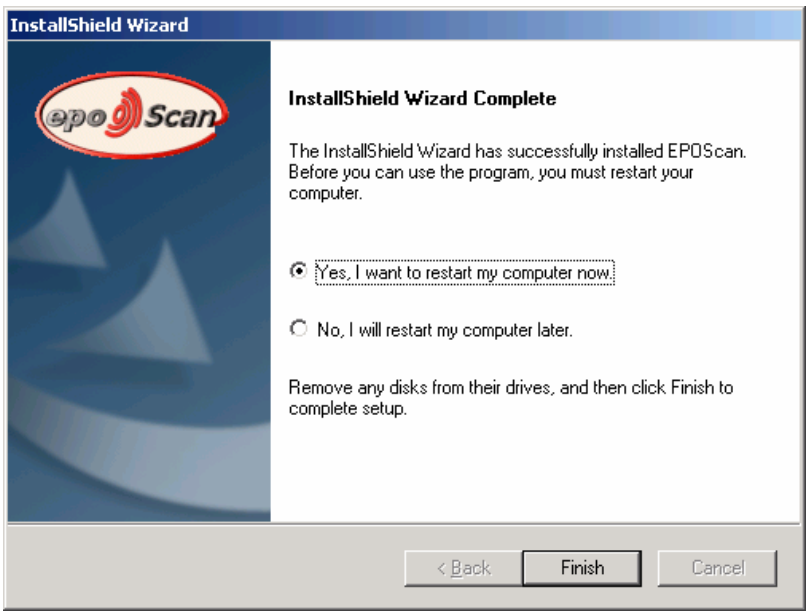

Figure 22: installation complete

7.1.3 No selected (NO 2)

An empty **Firebird server name for system database** screen is displayed.

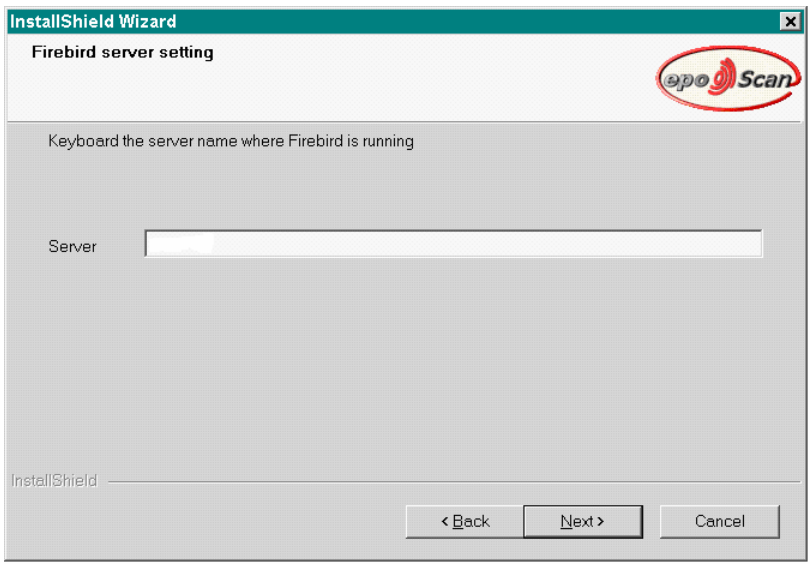

Figure 23: empty Firebird server name for system database

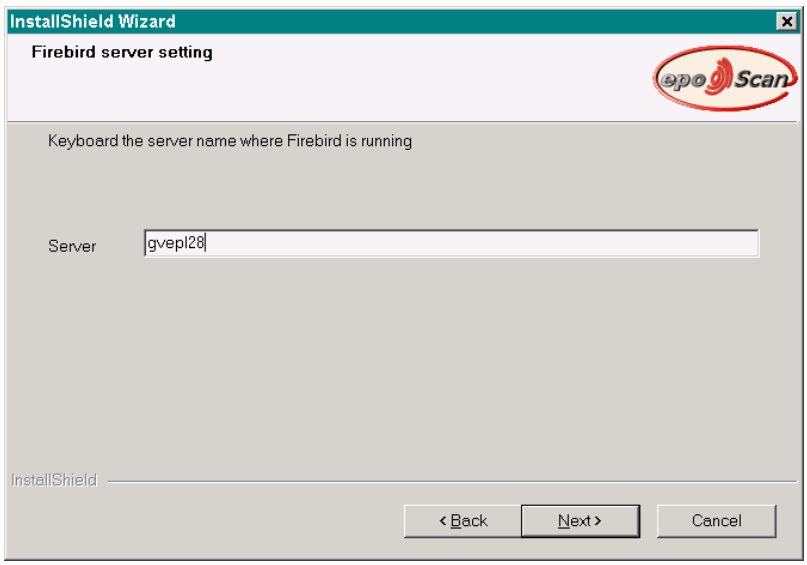

Figure 24: completed Firebird server name for system database

Click on **Next**.

Note:

Installing production database from here on.

The **Firebird databases setting** screen is displayed.

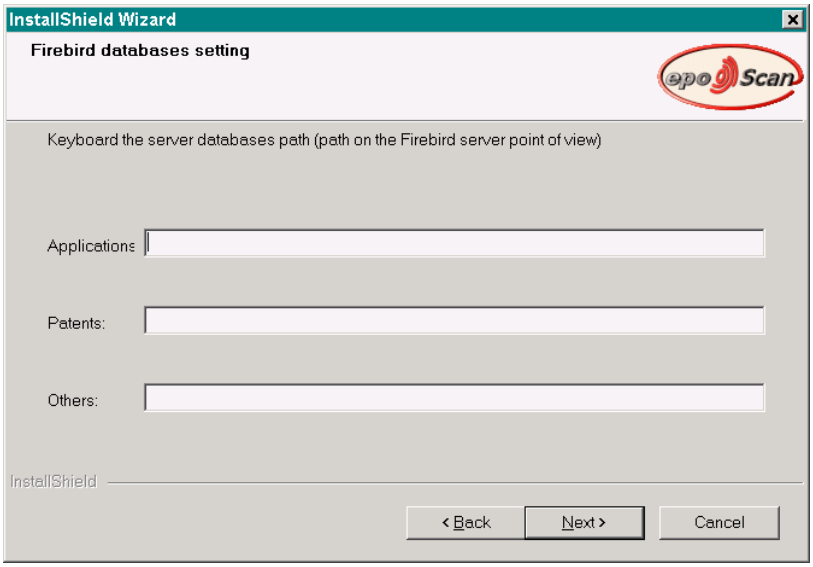

Figure 25: Firebird databases setting

Enter the server databases paths. These paths are defined from the Firebird server`s point of view.

Note

Each path is different.

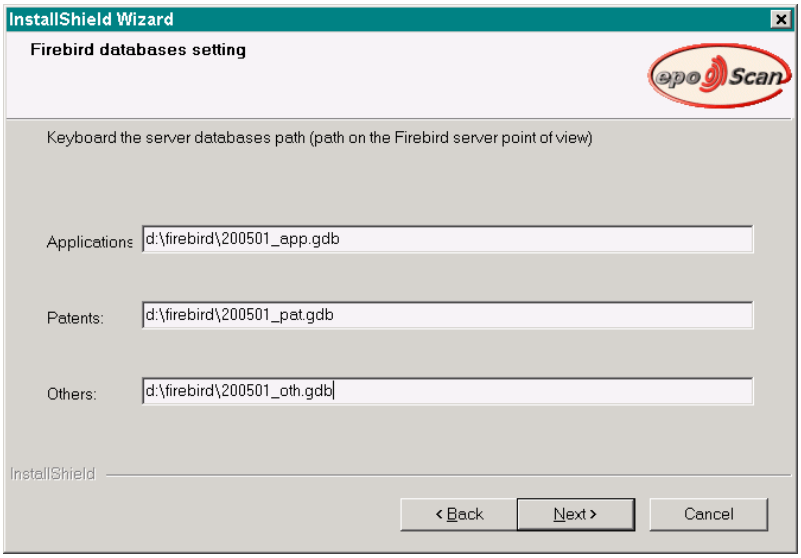

Figure 26: Firebird databases setting

Click on **Next**.

The **Select epoScan features** screen is displayed.

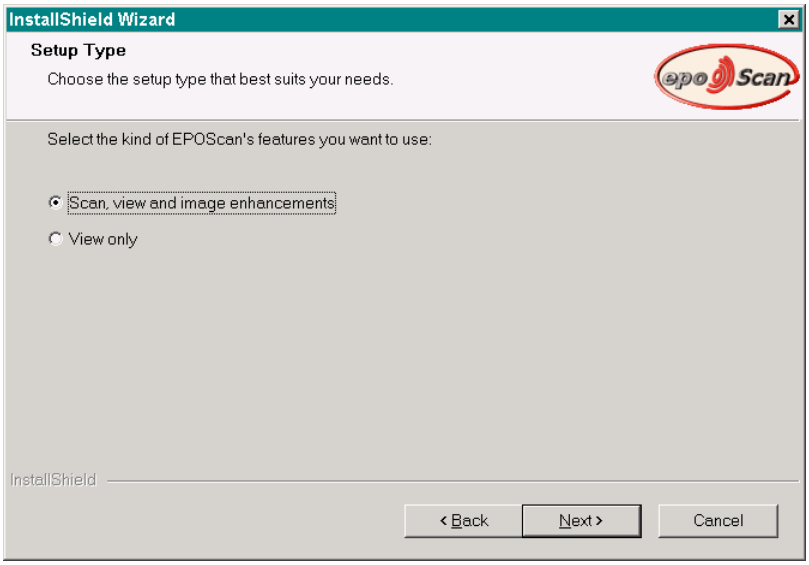

Figure 27: select epoScan features

View only is used for quality control, and so is never normally selected.

Chose **Scan, view and image enhancements**, and click on **Next**.

The **Select components** screen is displayed.

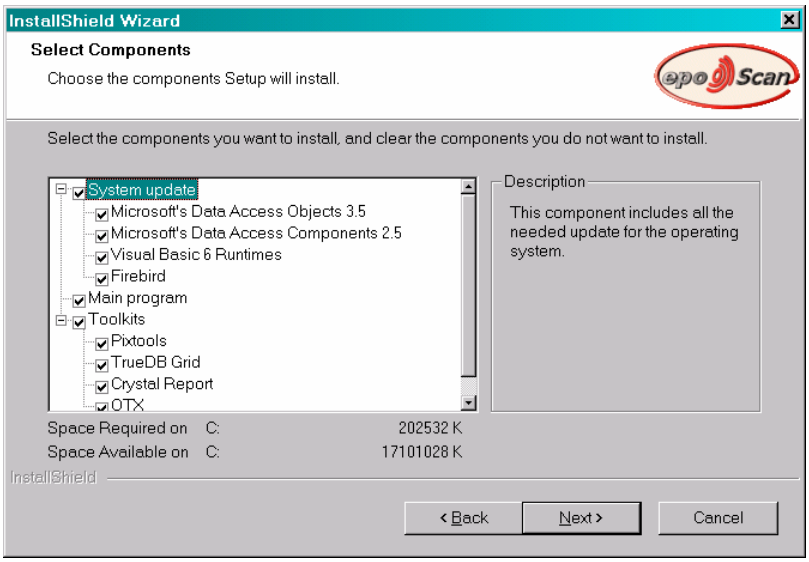

Figure 28: select components

Note:

the ticked components are the default settings. these should not be changed except by an expert user.

Click on **Next**.

The **Select Program Folder** screen is displayed.

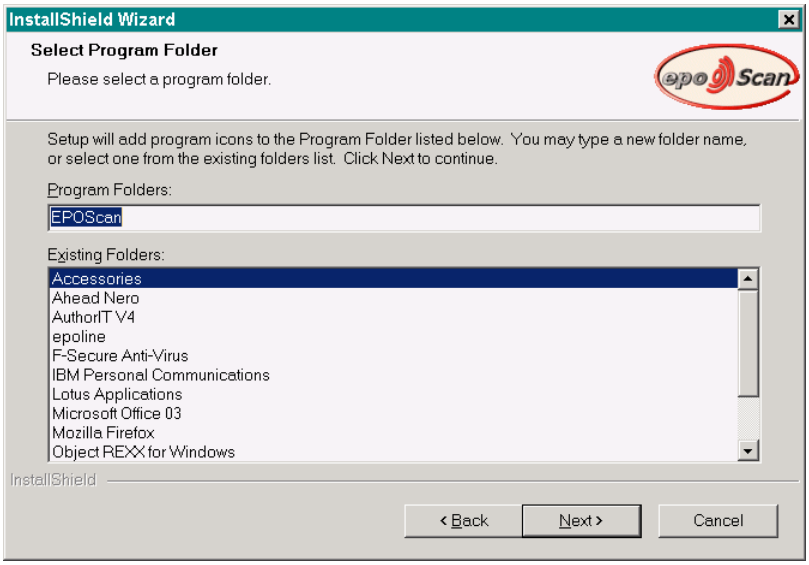

Figure 29: select program folder

Click on **Next**.

The **Review settings** screen is displayed.

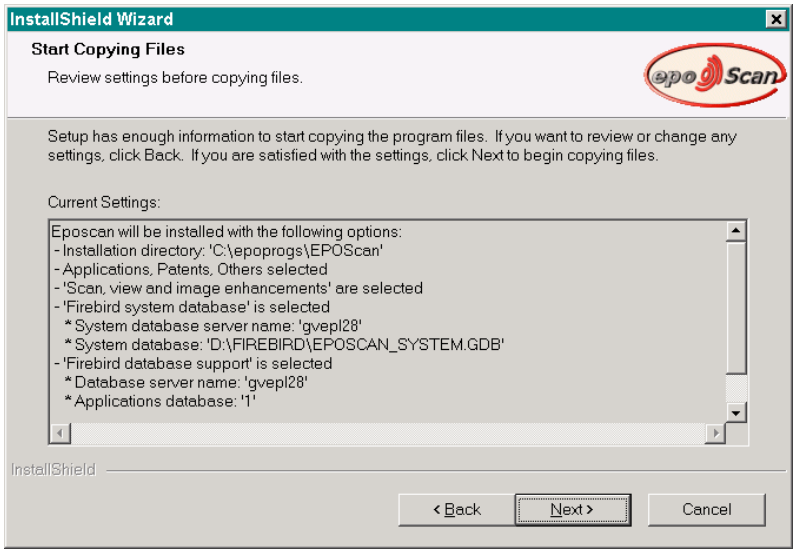

Figure 30: review settings

Click on **Next.**.

The **Installing** screen is displayed.

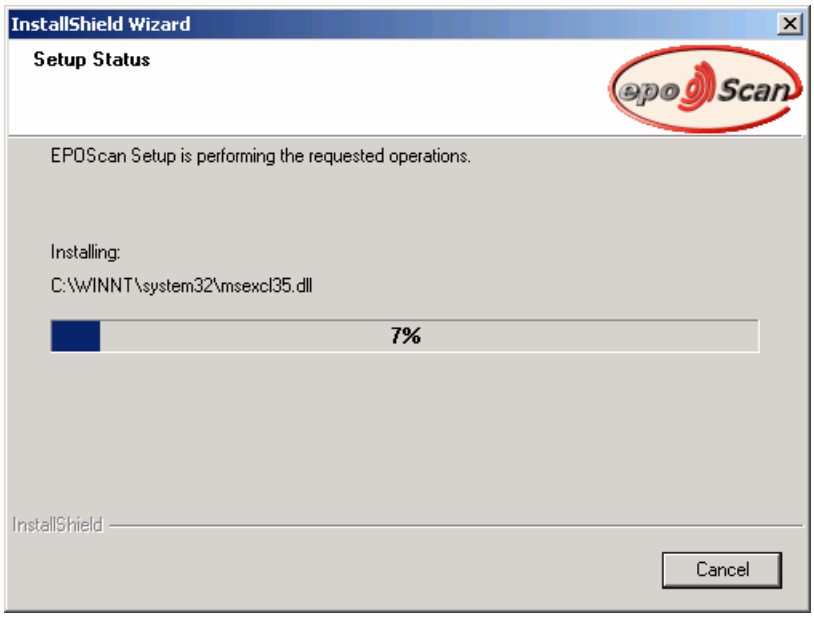

Figure 31: installing files

Click on **Next**. The setup commences. The blue bar and the percentage of setup completed is displayed.

Once the installation has completed the **InstallShield Wizard Complete** screen is displayed. Select the required option and click on **Finish**.

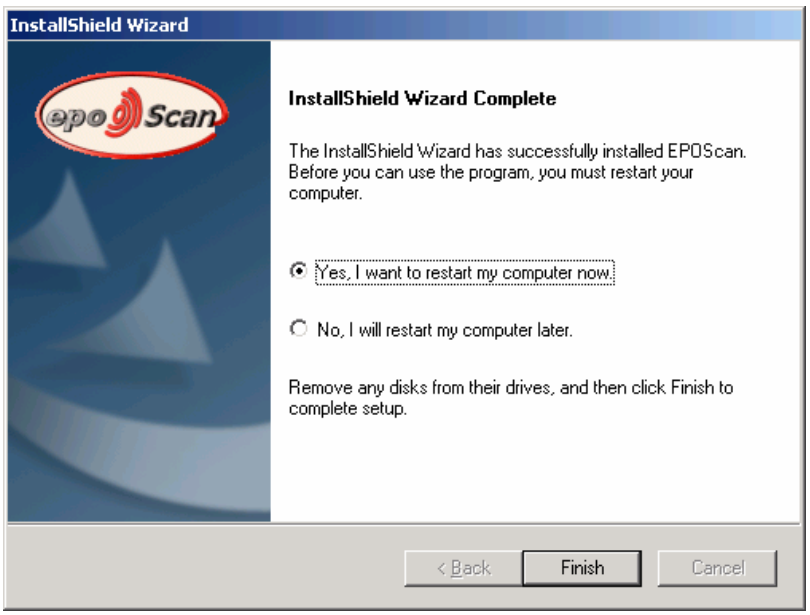

Figure 32: installation complete

7.1.4 No selected (NO 1)

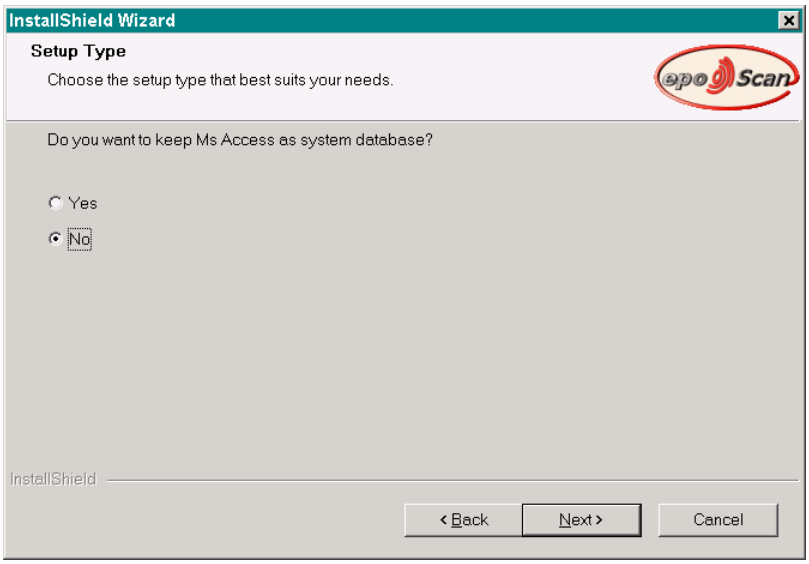

Figure 33: keep Access: no

Click on **Next**. Because Firebird was selected in the **Setup Type** screen to provide this example (see Figure 13: setup type), the **Firebird server setting for system database** screen is displayed.

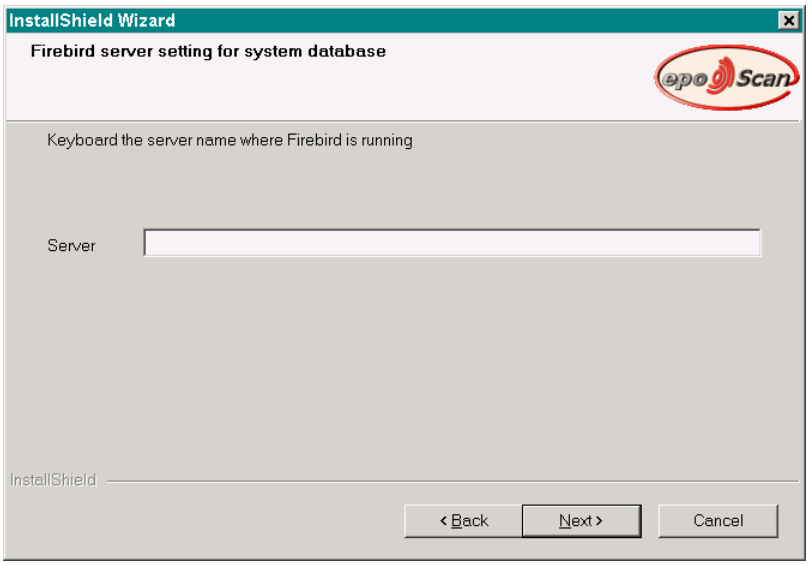

Figure 34: Firebird server name for system database

Complete the blank field by entering the server name where Firebird is running.

Click on **Next**.

The **Firebird Sys. DB (server name)** screen is displayed

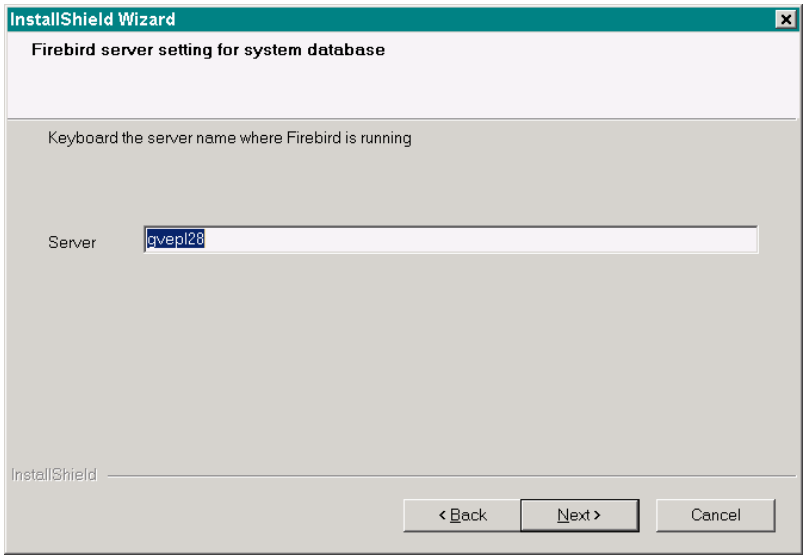

Figure 35: Firebird sys. db. (server name)

Click on **Next**.

An empty **Firebird database settings (system)** screen is displayed.

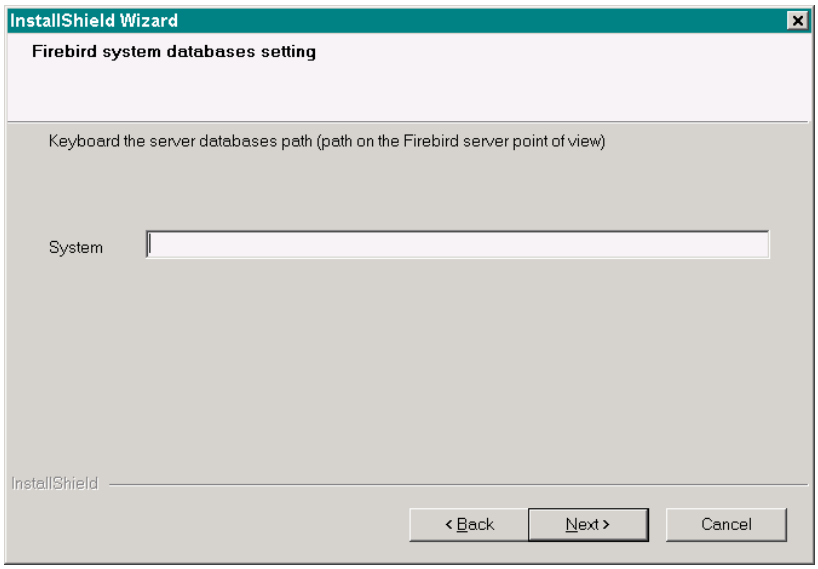

Figure 36: empty Firebird database settings (system)

Complete the blank field by entering the server databases path.

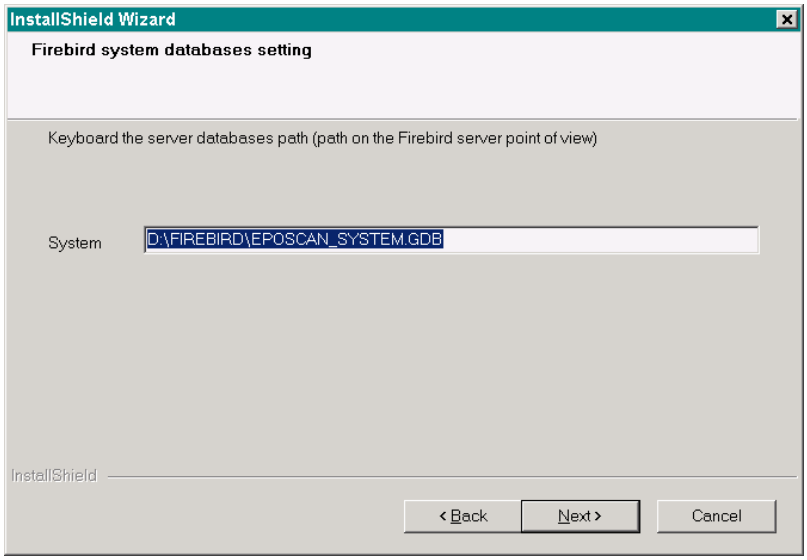

Figure 37: Firebird database settings (system)

Click on **Next**.

An empty **Firebird server name for system database** screen is displayed.

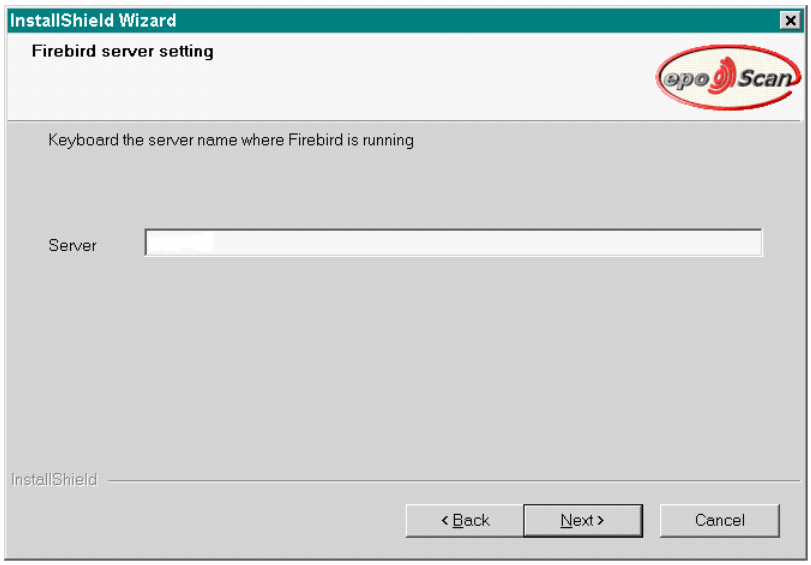

Figure 38: empty Firebird server name for system database

Complete the blank field by entering the server names.

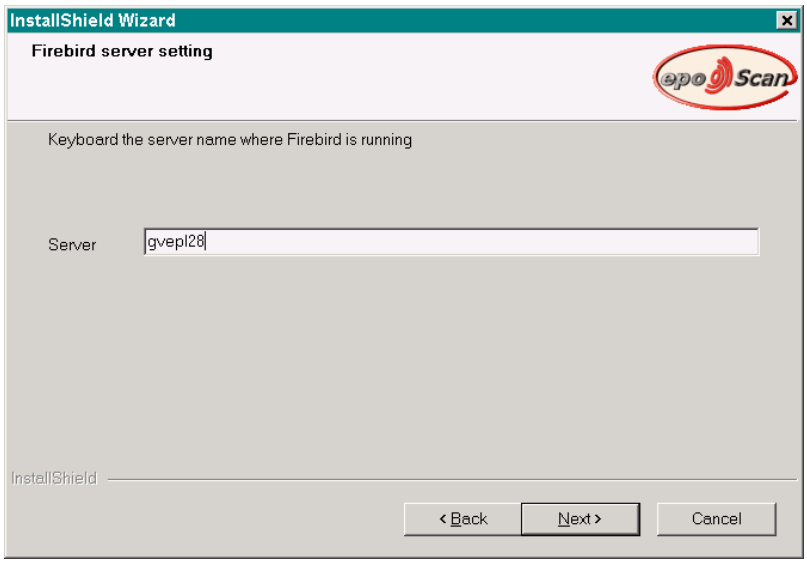

Figure 39: completed Firebird server name for system database

Click on **Next**.

Note:

Installing production database from here on

The **Firebird databases setting** screen is displayed.

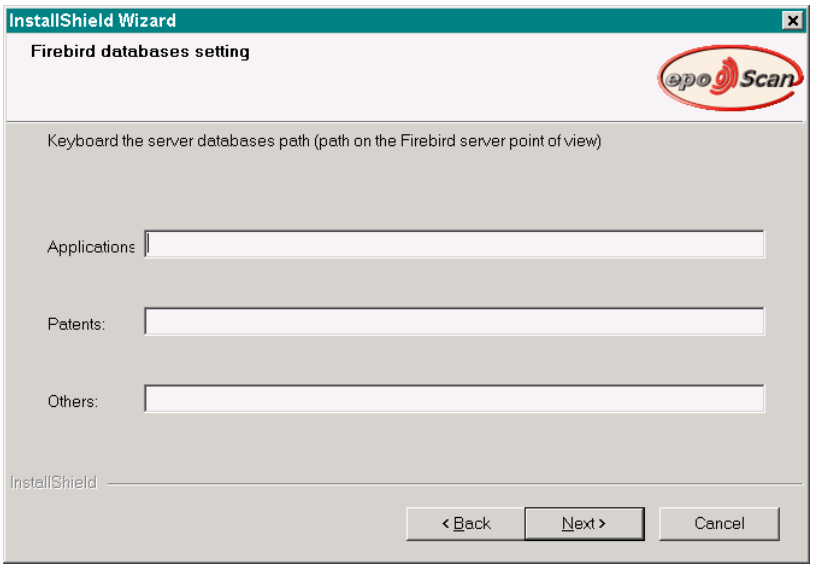

Figure 40: Firebird databases setting

Enter the server databases paths. These paths are defined from the Firebird server`s point of view.

Note

Each path is different.

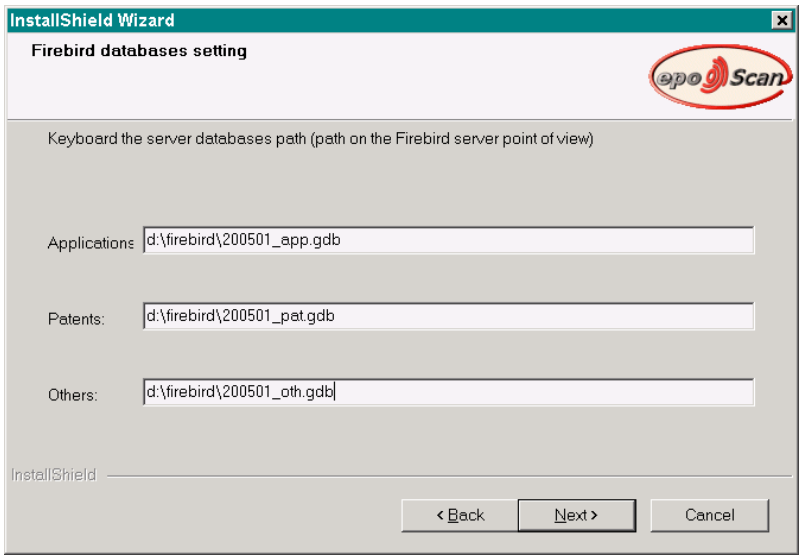

Figure 41: Firebird databases setting

Click on **Next**. The **Select epoScan features** screen is displayed.

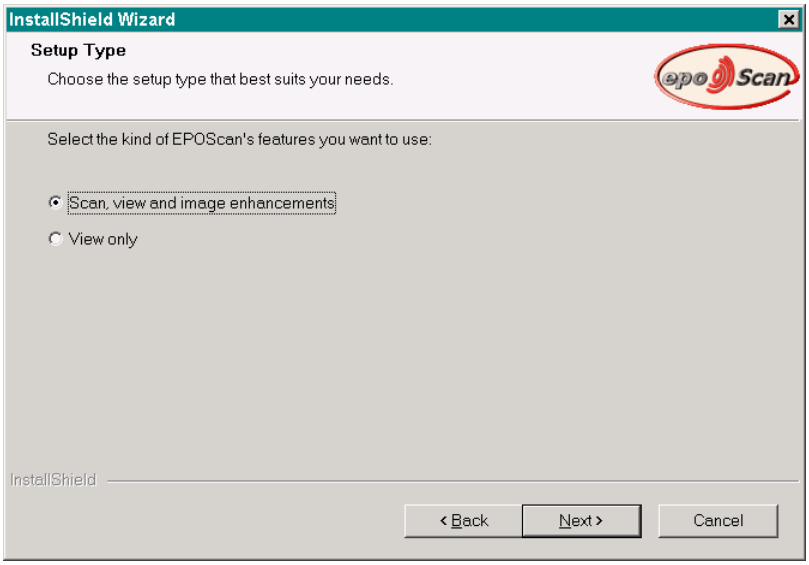

Figure 42: select epoScan features

View only is used for quality control, and so is never normally selected.

Chose **Scan, view and image enhancements**, and click on **Next**.

The **Select components** screen is displayed.

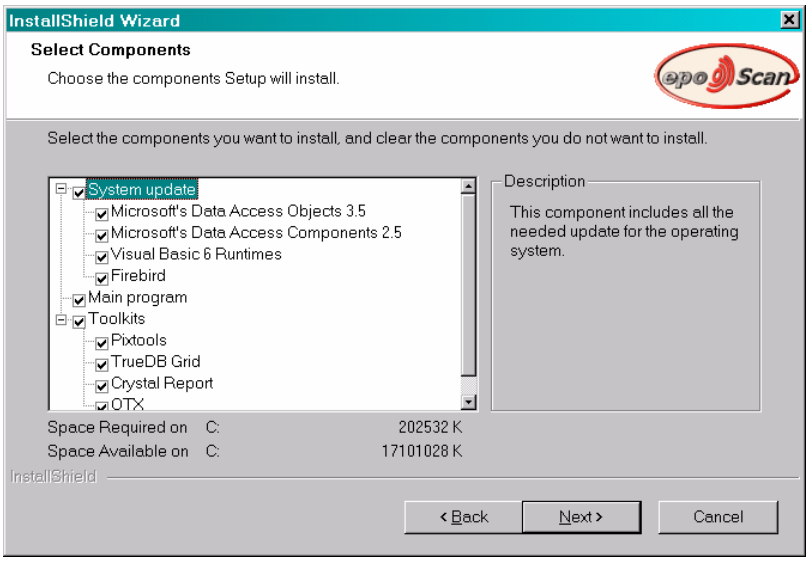

Figure 43: select components

Note:

The ticked components are the default settings. These should not be changed except by an expert user.

Click on **Next**.

The **Select Program Folder** screen is displayed.

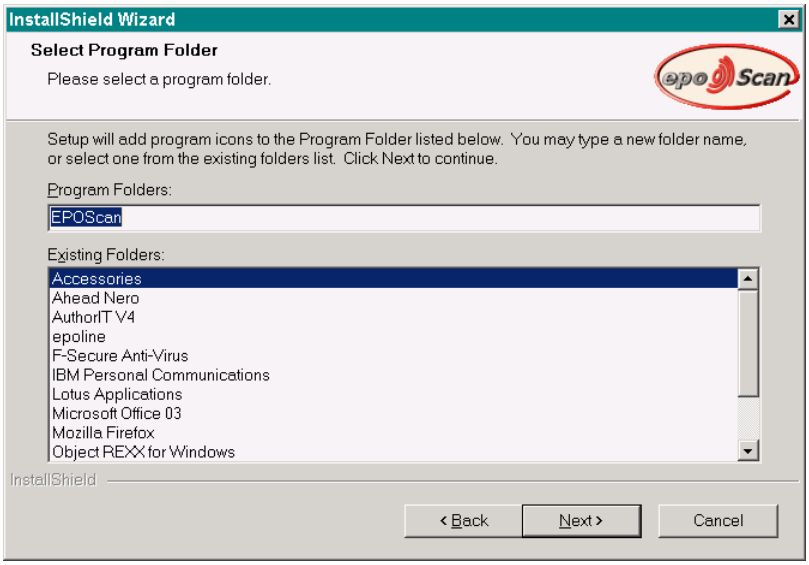

Figure 44: select program folder

Click on **Next**.

The **Review settings** screen is displayed.

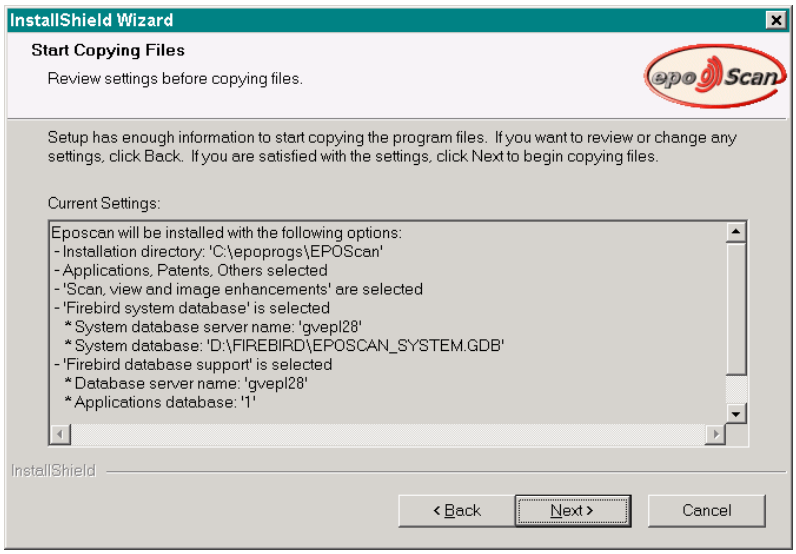

Figure 45: review settings

Click on **Next**. The **Installing** screen is displayed.

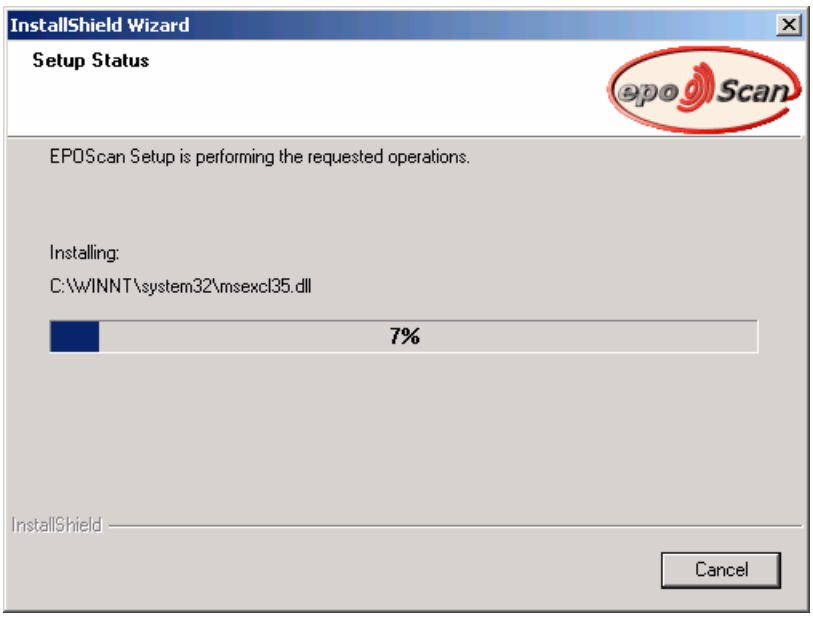

Figure 46: installing files

Click on **Next**. The setup commences. The blue bar and the percentage of setup completed is displayed.

Once the installation has completed the **InstallShield Wizard Complete** screen is displayed. Select the required option and click on **Finish**.

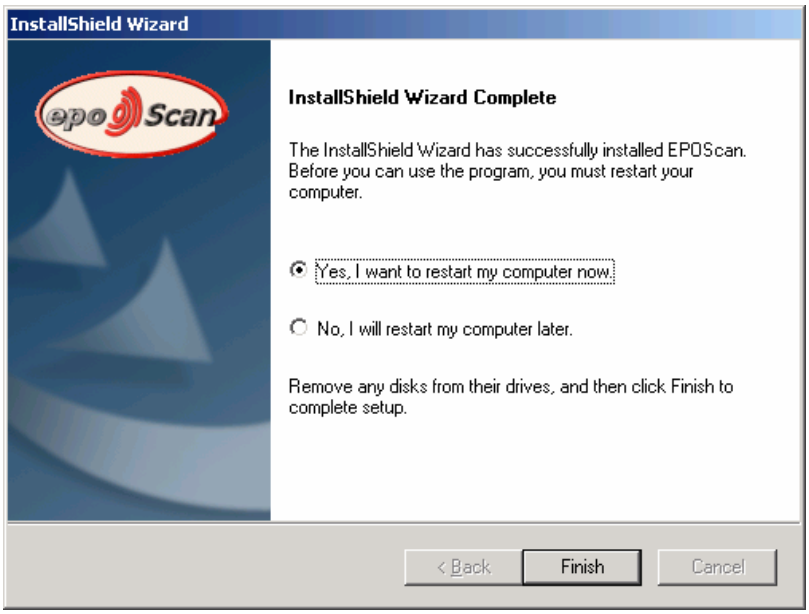

Figure 47: installation complete

8 Login

Double click on the epoScan icon on the desktop to start epoScan. The login window will be displayed.

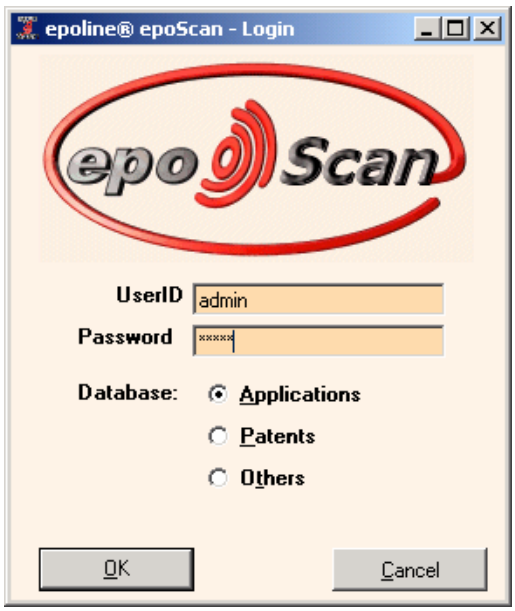

Figure 48: epoScan login

Enter the UserID and Password, and select the database.

Login UserID and Password	
Field	**Default**
UserId	admin
Password	ADMIN (Case sensitive)

These values can be changed by the user.

In order to use epoScan the settings have to be configured.

Note:

Only those sufficiently qualified and experienced should attempt to use the advanced options to modify the default installation and configuration settings.

9 epoScan initial screen

Note:

The scanner is configured and set up by the administrator. Any changes made to these settings may cause image quality problems.

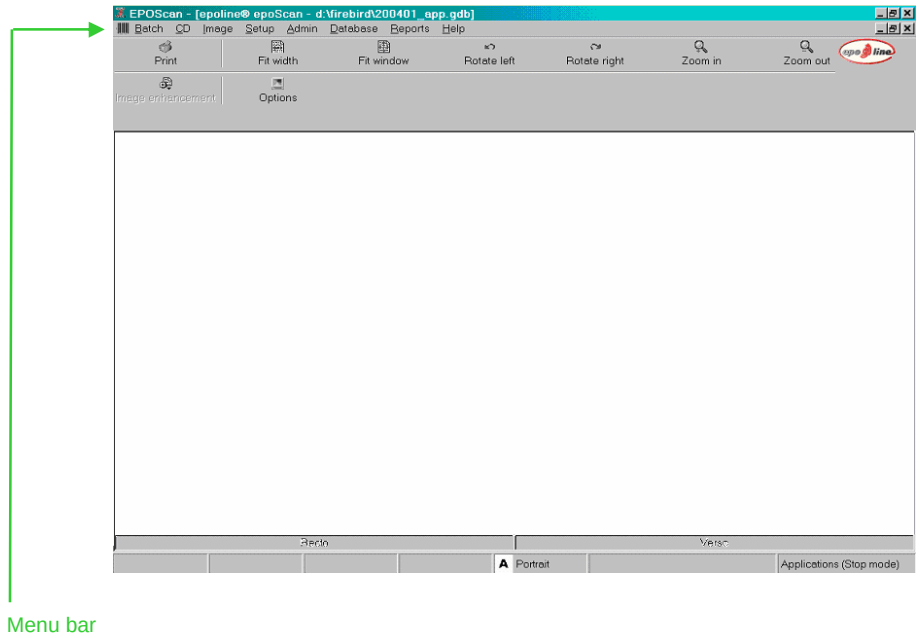

Figure 49: eposcan initial screen

The menu bar gives access to all of the available functions.

EPOScan functions		
Function	**Meaning**	**Availability**
Batch	Scan List Troubleshooting Exit	
CD	Generate Re-generate RQC Troubleshooting Quality control • Systematic • Interactive • Random Sample Maintenance	

EPOScan functions		
Function	**Meaning**	**Availability**
Image	View	
	Print	
	Print Setup	
	Uploading	Not available for applications
	Downloading	Not available for applications
	Cleaning	Not available for applications
	Send Email	
	Transfer by FTP	For use with "Flowport"™
	Automatic post-indexing	Not available for applications
	Manual post-indexing	Not available for applications
	Indexing correction	Not available for applications
	Batch image enhancement	
	Clipping	Not available for applications
	Test incrustation	
	Quality control	
Setup	Options	
	Bar code reading	
	Image enhancement	
	Email options	For use with Flowport™
	FTP options	For use with Flowport™
	Calibration manager	
Admin	Users	
	Permissions	
Database	Info	
	Select • Application • Patents • Others.	
	Batch status modification.	
Reports	Daily production	
	Rejected package	
	Batches partially scanned	
	CD Contents	
	Quality control	
	Scanning	
Help	Contents	
	About	

10 Batch

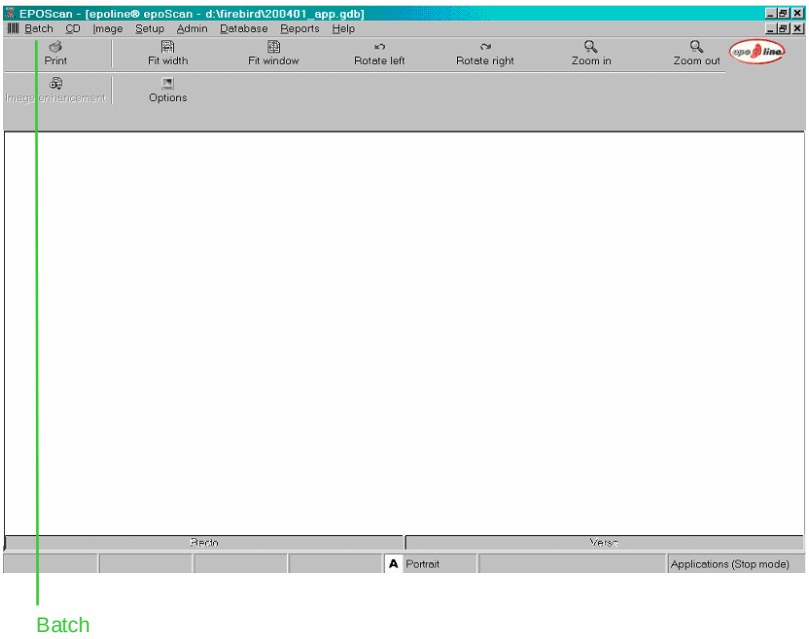

Figure 50: epoScan initial screen

Click on **Batch**. The batch drop-down menu will be displayed. Select Scan, and the Batch ID Entry screen will be displayed.

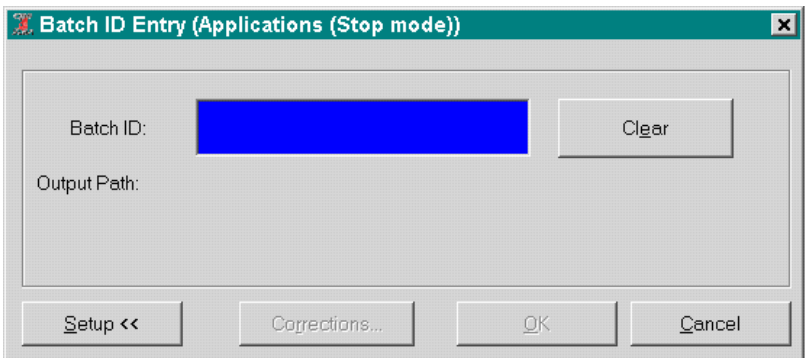

Figure 51: batch id entry

Click on **Setup**.

The **Batch ID Entry** screen is displayed.

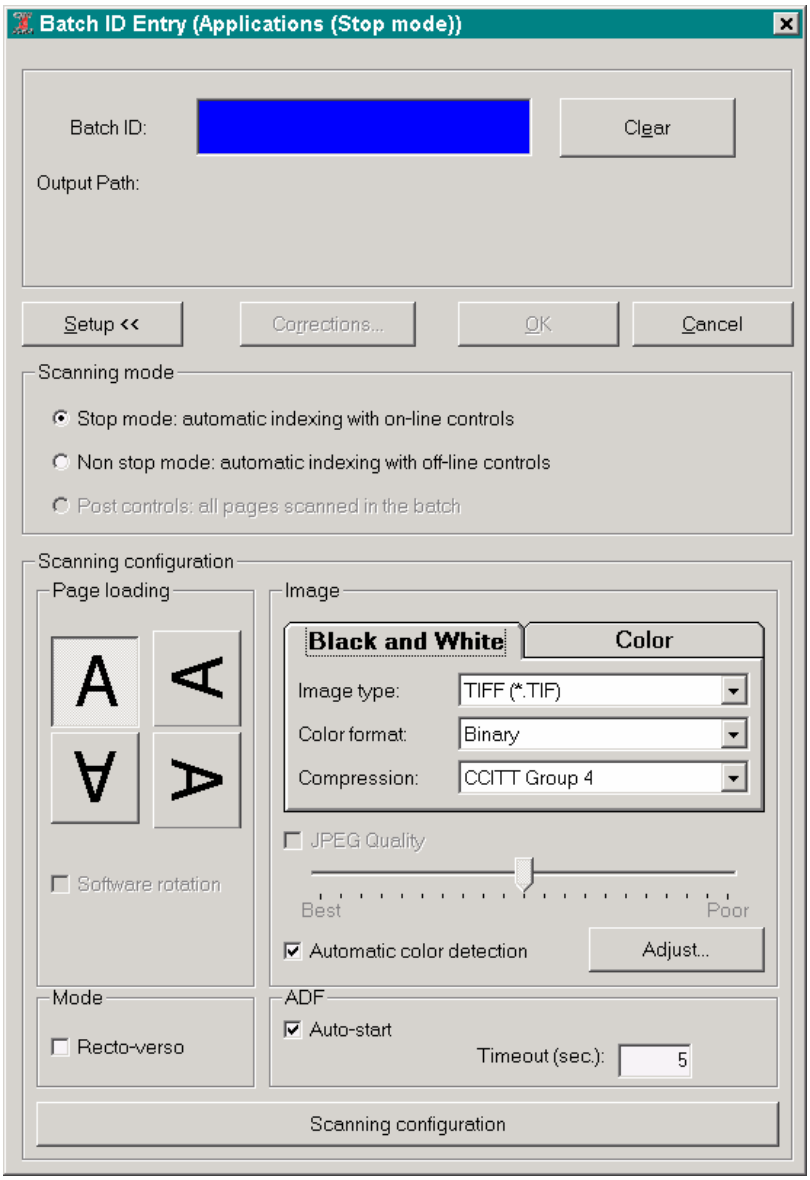

Figure 52: batch id entry

Enter information and adjust the settings as required. Click on **Setup <<** to return to the initial screen.

Note

A scanner must have already been set up. See 11.2.2 Supported ISIS® scanners.

10.1 Scanning mode

Options	
Option	**Result**
Stop	Index file is used during scanning. Scanning will stop if a mismatch between pages indexed and pages scanned is found. Scan operator is able to correct scan/index errors immediately.
Non stop	Index file is used during scanning but scanning doesn't stop. When scanning is complete an automatic index process will run. During this process the comparison between pages indexed and pages scanned is made. If errors are found they are displayed in a list and the operator can correct the errors using the Document Correction functionality.
Post controls	No index file required. Used for scanning other- and patent documents. If patent document are scanned in this mode, images can be used for manual indexing afterwards.

10.2 Scanning configuration

10.2.1 Page orientation

Dependent on the paper quality (for example; position of staple holes, position of perforated date) specific page orientation can be selected.

Scanning in landscape mode gives a 25% performance increase.

10.2.2 Software rotation

Most scanners can cope with pages fed in widthways and will rotate the image accordingly. However, some devices may have difficulties in which case this setting will allow the epoScan software to do the rotation (this is slower).

Checking this box will solve a known problem with Kodak 1500D.

10.3 Image

This setting determines the quality of the image scanned. Use binary for plain black text on white paper and for documents with shades of grey use the appropriate level of grey. The more shades of grey the larger the image file becomes.

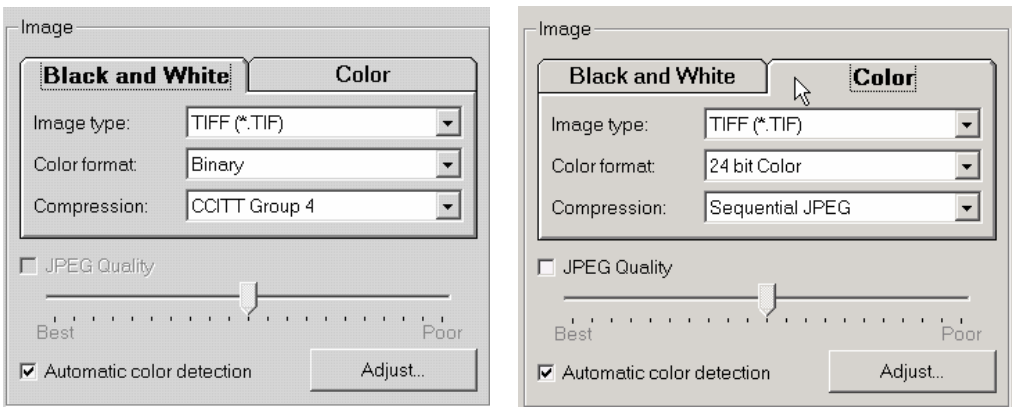

Figure 53: image tabs

Click on **Adjust**. The **Color detection settings** screen is displayed

10.4 Colour scanning

Colour scanning is available in all scanning modes, for all document types. Please see 10.1.

During application scanning, automatic switching between black white and colour is executed based on a flag in the DMS file. Please see *ePHOENIX Document Capture User Manual*, section 3.8.1.

10.4.1 Automatic colour detection

Automatic **Color detection** causes an image to be processed as colour once the set threshold has been reached.

Note:

Automatic colour detection is only available for application scanning.

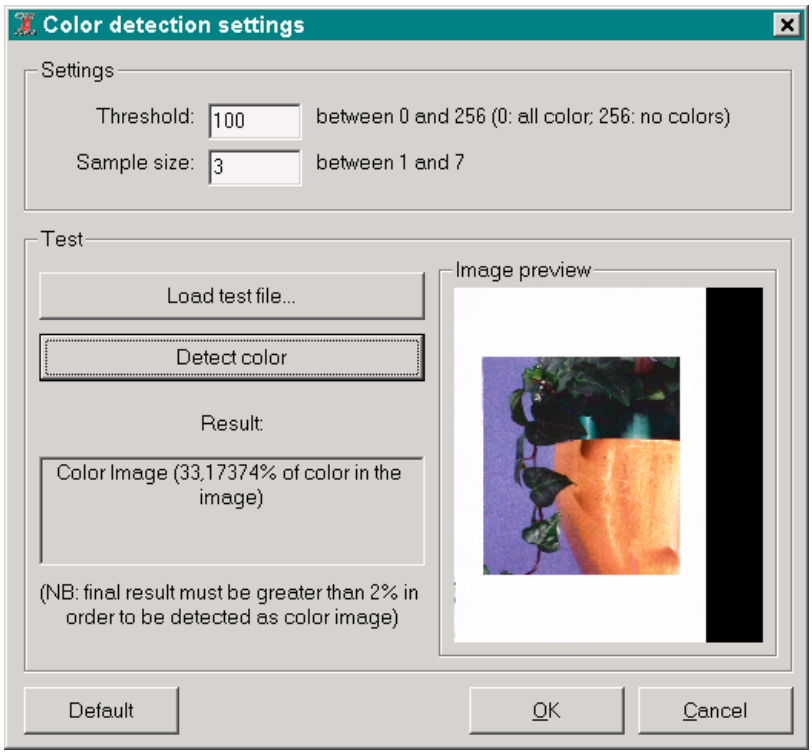

Figure 54: color detection settings

The Threshold property is the minimum colourfulness threshold level. The average threshold of a neighbourhood is compared to the threshold value that is set. If the threshold value is set to 0, then all neighbourhoods are colourful because the average threshold of each neighbourhood is probably greater than 0. If the threshold value is set to 256, then no neighbourhoods are colourful.

For most applications, the default colourfulness threshold is probably suitable. However, some applications might require adjustment of this parameter. If only bright colours should trigger colour processing, the colourfulness threshold might be increased to 200. If very pale colours need to be detected, it might be lowered to 50.

The image is broken into cells and the Sample Size property sets the cell size for checking the colour content.

For most applications, the default sampling neighbourhood is probably suitable. However, some applications might require adjustment of these parameters. If the resolution is especially low (100 dpi or less), the sampling neighbourhood might be reduced to 1 x 1 or 2 x 2, and if it is high (600 dpi or more), it might be increased to 5 x 5. Also, if the colour channel misalignment is particularly high, the sampling neighbourhood might be increased to compensate.

10.5 Auto-start

Checking the **auto start** means that the scanner will start scanning after a delay of five seconds.

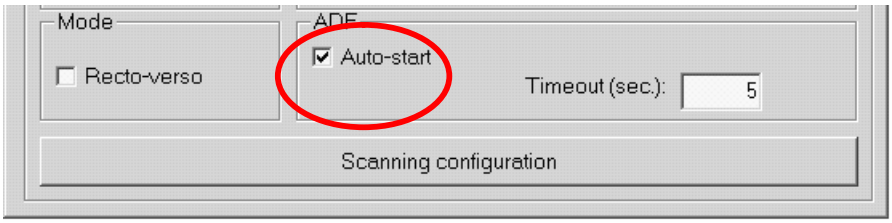

Figure 55:auto-start

If the scanner which is connected to a single PC or on several machines connected to a central server does not support automatic starting of the scanner when starting batch Scanning the Auto-start" check box must be unchecked.

- Select Batch à Scan
- Select Setup
- Uncheck Auto-start.

11 Setup

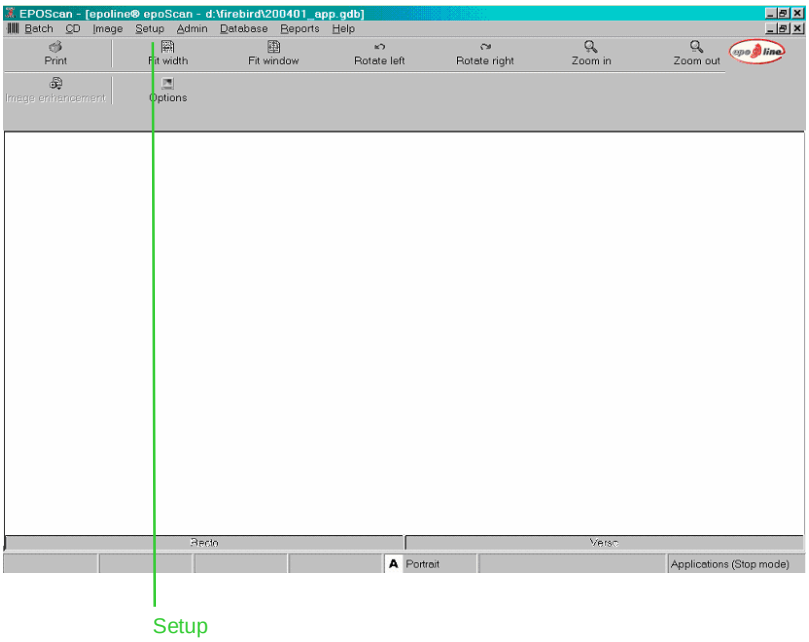

Figure 56: epoScan initial screen

Click on **Setup**. The setup drop-down menu will be displayed.

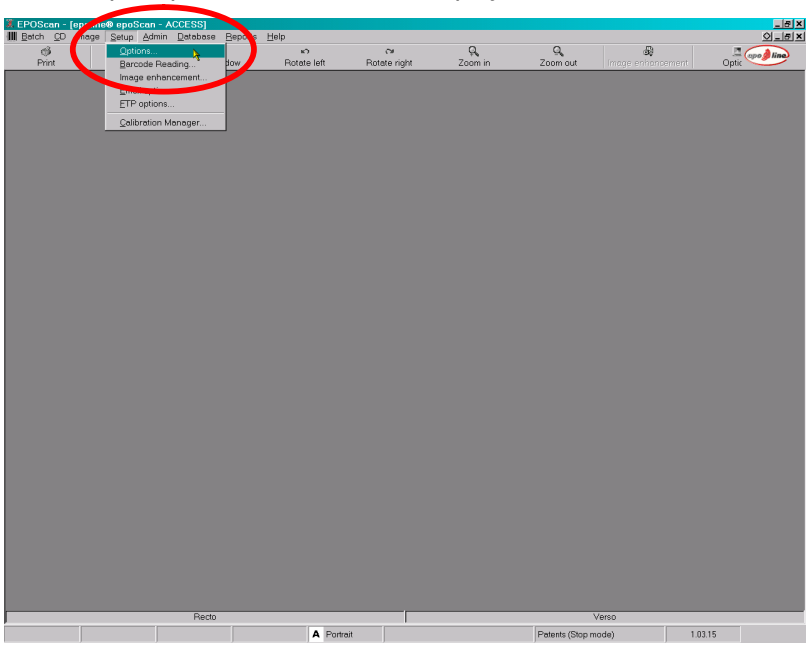

Figure 57: setup screen

Select **Options**.

An alternative is to select **Options** from the menu bar.

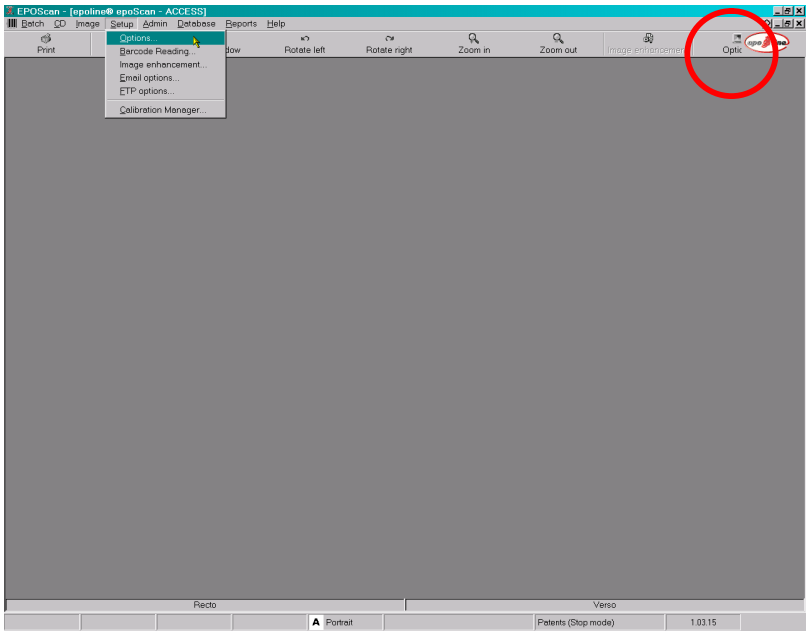

Figure 58: setup screen: options

11.1 Options

11.1.1 General

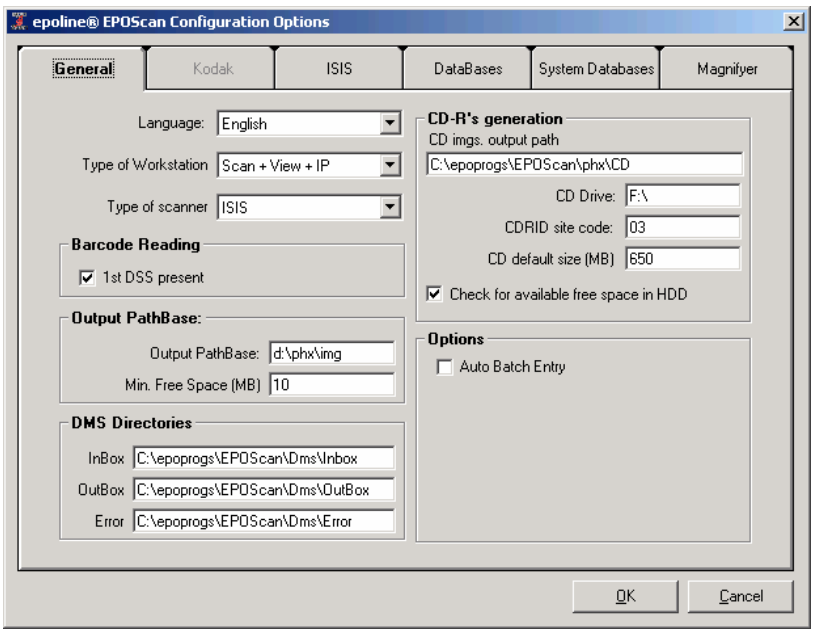

Figure 59: configuration options: general

Configuration options: general		
Item	**Explanation**	**Setting**
Language	GUI language	English or Spanish
Type of Workstation	Related to installed licenses and purpose of workstation. See 1.1	Scanning, CD generation, Quality Control
Type of Scanner	ISIS: ISIS driver used. See list under ISIS Tab, Select scanner to select/Setup your scanner. KODAK: Kodak Twain drivers used. See list under Kodak Tab	ISIS or Kodak
Barcode Reading	First Document Separator Sheet (DSS) present.	Checked Yes/No
Auto Batch	If checked the Batch/Scan window will be automatically opened after completion of a batch.	Checked Yes/No
DMS Directories	INBOX – Directory where Index files are stored. OUTBOX– Directory where results files are stored. ERROR: DMS file containing error(s) will be moved here. (E.g. Duplex batch with an odd number of pages)	Drive:\DMS\Inbox Drive:\DMS\Outbox Drive:\DMS\Error
Output PathBase	Directory where images are stored directly after scanning. Directory has to be created manually if not using the directory installed during installation.	Drive:\Images
Min. Free Space (MB)	Minimum required size to store images. If size is less than indicated a warning will be given.	Size in MB
CD-R's generation	*CD imgs. Output path* - Directory where the CD Image is stored. Directory has to be created manually if not using the directory installed during installation. *CD drive* – Location of CD for Quality Check *CDRID site code* – Site Code is part of CD number. See CD generation *CD Default size* – Maximum size of CD/DVD. Prevents creating a CD/DVD Image larger than the allowed CD size *Check for available free space in HDD*	Drive:\CD Drive letter Two digits Size in MB Checked Yes/No

11.1.2 Kodak

If Kodak is selected as **Type of scanner** then the Kodak tab will become available.

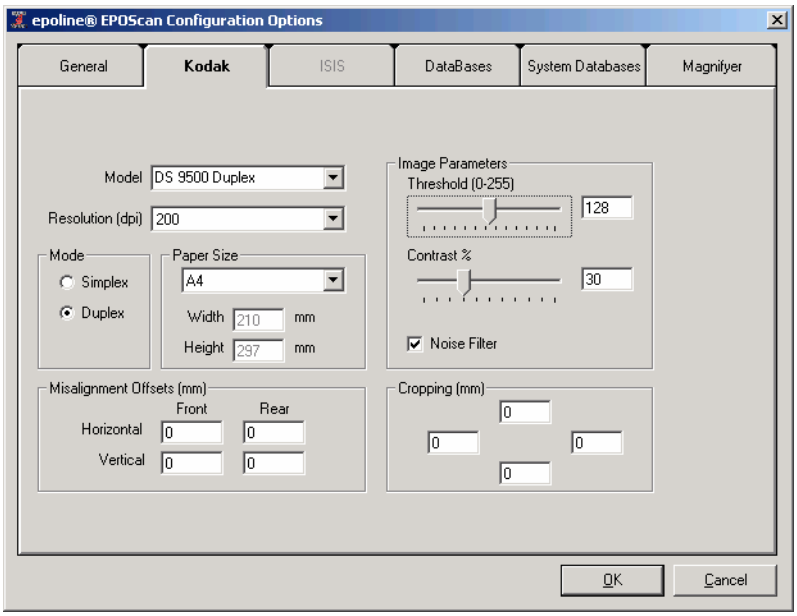

Figure 60: configuration options: Kodak

11.1.3 ISIS

If ISIS® is selected as **Type of scanner** then the ISIS tab will become available.

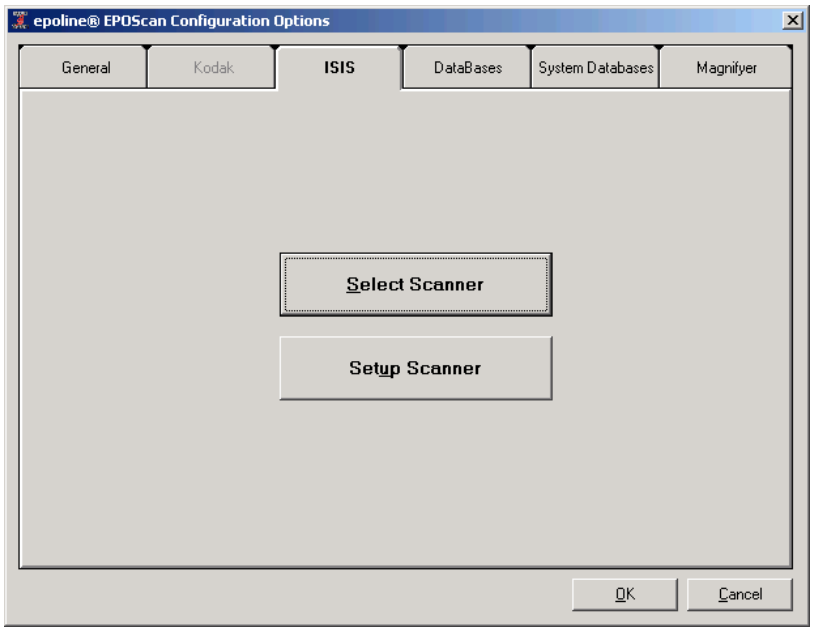

Figure 61: configuration options: ISIS

epoScan is delivered with PIXTOOL® licenses required to control the scanning process. ISIS® drivers are also available to allow epoScan to communicate with the scanner. Please refer to 11.2.2 Supported ISIS® scanners for the list of supported ISIS® scanners.

Select ISIS® followed by Select Scanner after which the scanner which has been installed can be configured.

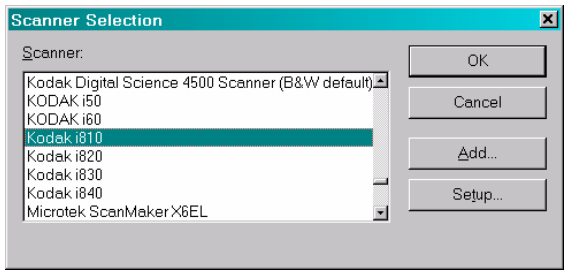

Figure 62: scanner selection

It is better to select the scanner setting later. Please refer to section 11.2.1 Scanner

The latest Kodak models (I series) are delivered with ISIS® drivers.

11.1.4 Databases

Select a database type from the drop-down menu within the **Database type** field.

11.1.4.1 Access database

Note

It is recommended to rename the database to, for example, 200603_app.mdb because it is a requirement to start with an empty database at regular intervals, suggested as once per month.

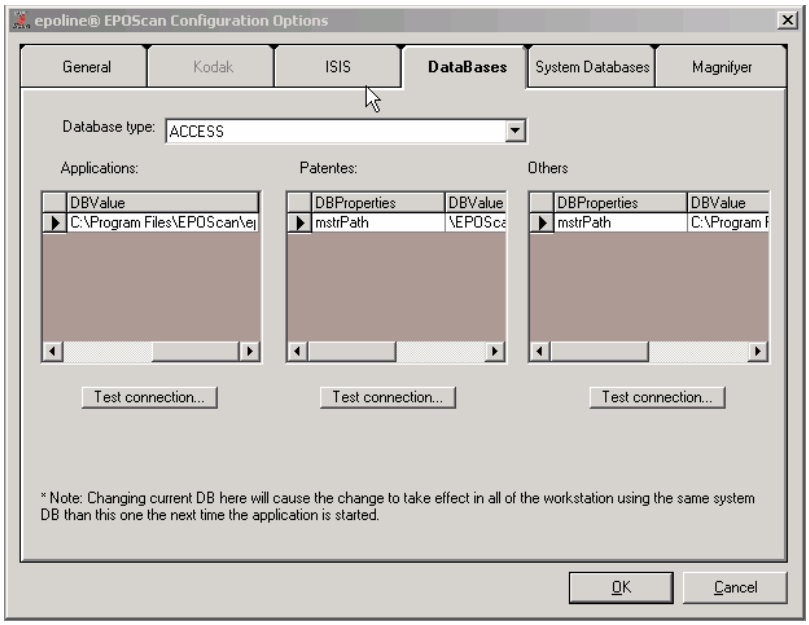

Figure 63: configuration options: databases: Access

Enter the path in which databases are stored on the server. The drive on the server must be entered here. Once completed **Test connection** can be used to see if the server is available.

11.1.4.2 Firebird database

Note

It is recommended to rename the database to, for example, 200603_app.gdb because it is a requirement to start with an empty database at regular intervals, suggested as once per month.

The database templates (.gdb) must be copied to the server before proceeding with the configuration.

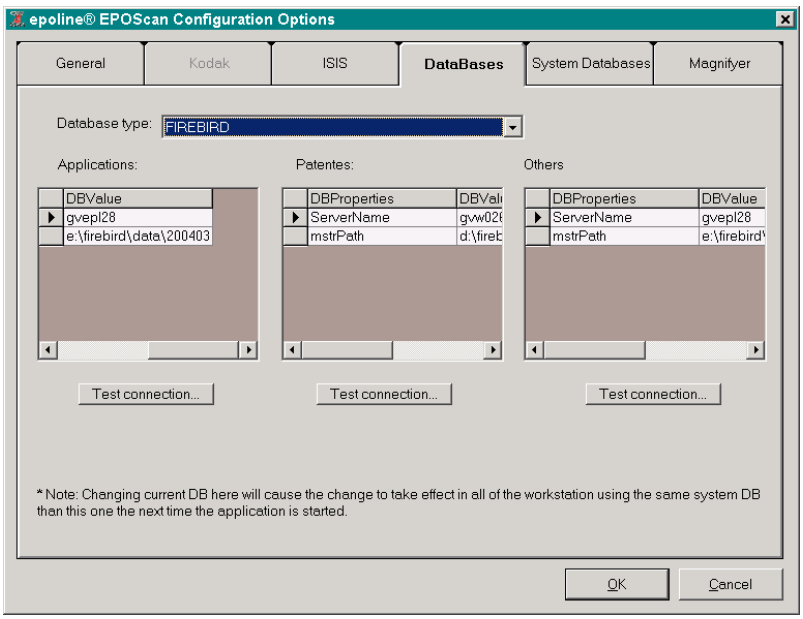

Figure 64: configuration options: databases: Firebird

Firebird is normally installed on a (scan) server, where the name of the scan server is entered during installation of epoScan.

Enter the path in which databases are stored on the server. The drive on the server must be entered here. Once completed **Test connection** can be used to see if the server is available.

Make sure that the Report Database points to the same path as the Applications Database.

Click on **OK**.

11.1.4.3 Oracle database

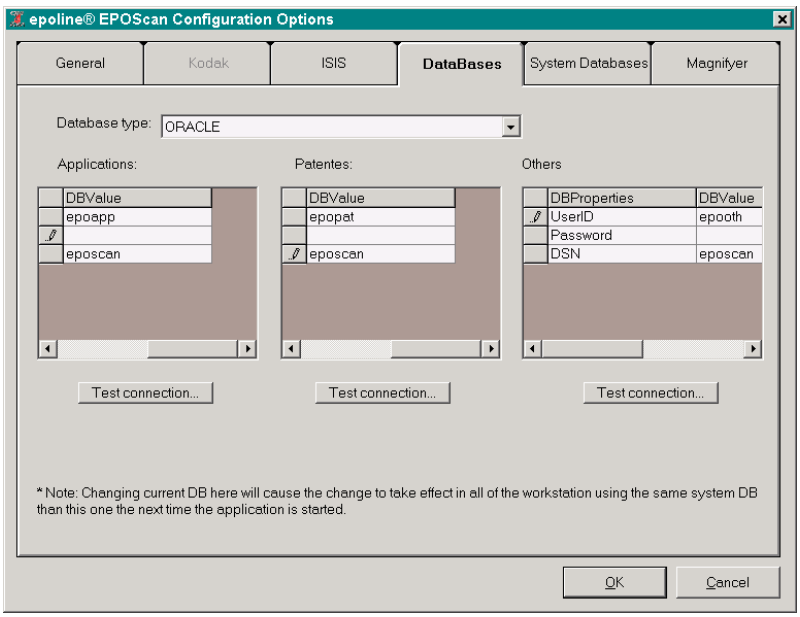

Figure 65: configuration options: databases: Oracle

Oracle is normally installed on a (scan) server. **Data Source name** is created during execution of the installation scripts.

Click on **OK**.

11.1.5 System databases

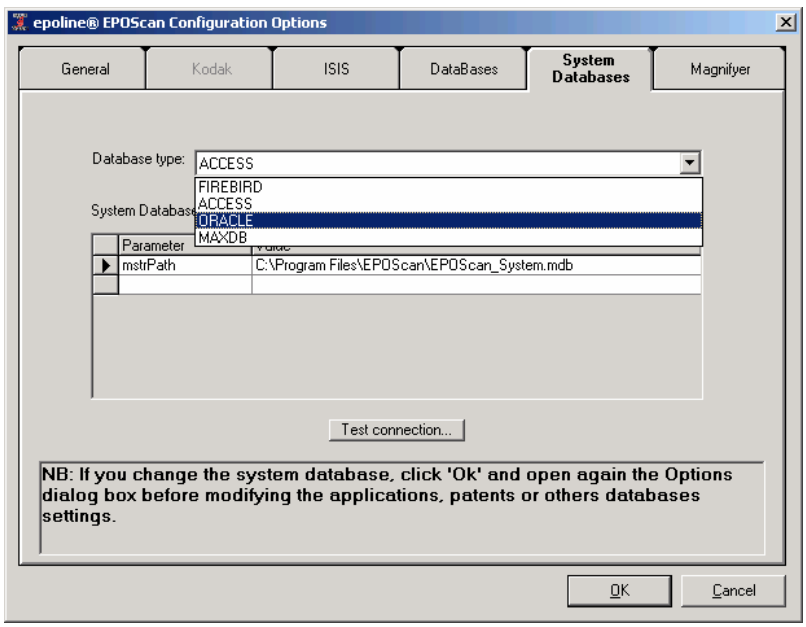

Figure 66: configuration options

Note

Please obey the instruction shown at the base of the screen.

11.1.6 Magnifier

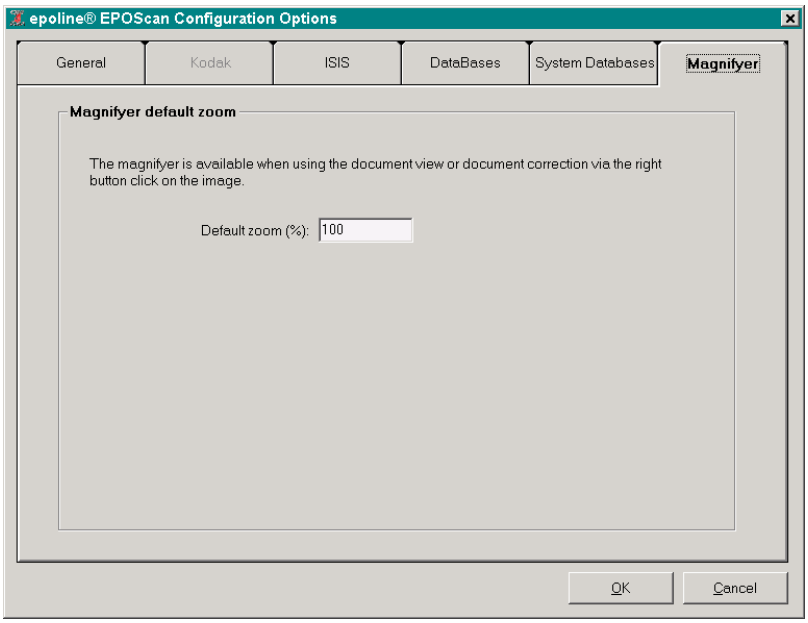

Figure 67: magnifyer default zoom

The **Default zoom (%)** can be changed in this field. The magnifier is used during image viewing and document correction.

11.2 Barcode reading

Select Setup à Barcode Reading. The Barcode Reader Configuration screen will be displayed.

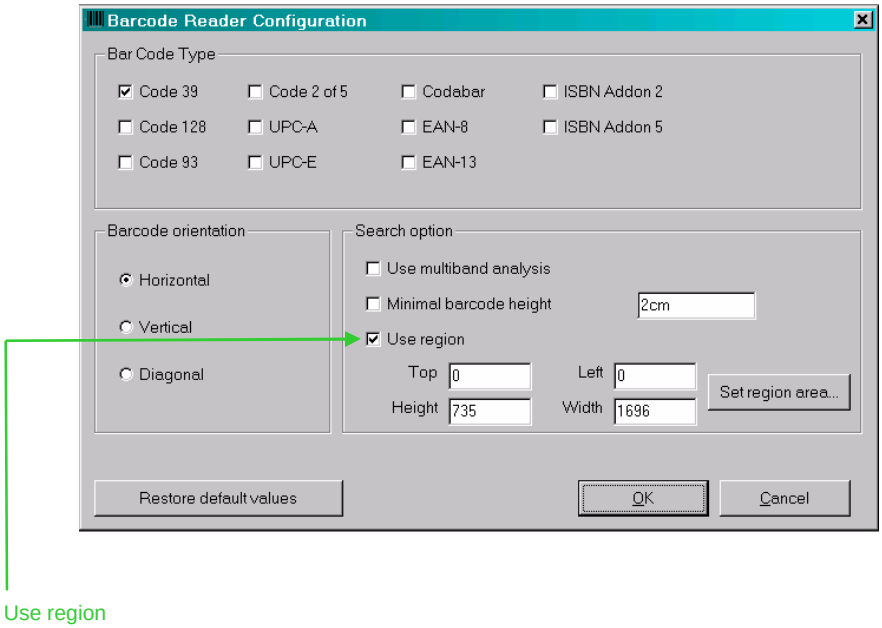

Figure 68: barcode reader configuration

In this window the region, where barcodes are located on the different barcode sheets, can be configured. To assist in this process a previously scanned barcode sheet can be selected to define this area. The size of the region will have an influence on the barcode reading performance and slows down the scanning process.

11.2.1 Scanner configuration

The scanner which is connected to a single PC or on several machines connected to a central server must be configured.

- Ensure that the ASPI32 drivers have been installed
- Select Setup à Options in the main window
- Select Type of Scanner:
  - If scanning with an ISIS® driver select ISIS® and then select the ISIS® Tab
  - If scanning with a Kodak Twain driver select Kodak and then select the Kodak Tab.

11.2.2 Supported ISIS® scanners

- Select Scanner
  - Select the scanner from the list If the scanner is not in the list then it is necessary to purchase the ISIS® drivers license for the scanner.

Note:
See http://www.pixtran.com/scanner_list.asp for the latest additions.

Supported scanner list	
Scanner	**ISIS® driver used**
Agfa Duoscan T1200	AGFADUO.PXN
Any Bell & Howell (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
Any Bell & Howell (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Any Fujitsu (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
Any Fujitsu (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Any Scanner w/Adrenaline	KOFAXIC3.PXN
Apple Color One 1200/30	APPLEONE.PXN
Apple Color One 600/27	APPLEONE.PXN
Bell & Howell 1000FB	BH5000.PXN
Bell & Howell 1500FB	BH5000.PXN
Bell & Howell 2135 with RSC	BELLHOWL.PXN
Bell & Howell 2137 with RSC	BELLHOWL.PXN
Bell & Howell 2138 with RSC	BELLHOWL.PXN
Bell & Howell 3238 with RSC	BELLHOWL.PXN
Bell & Howell 3338 with Kofax Kipp 2.1	KFSIMPLX.PXN
Bell & Howell 3338 with RSC	BELLHOWL.PXN
Bell & Howell 4040 SCSI	BH4000.PXN
Bell & Howell 5000F	BH5000.PXN
Bell & Howell 500F	BH500.PXN
Bell & Howell 6000F	BH5000.PXN
Bell & Howell 6338 (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
Bell & Howell 6338 (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Bell & Howell 6338 with RSC	BELLHOWL.PXN
Bell & Howell 8000 Series	BH8000.PXN
Bell & Howell 8080D SCSI	BH8000.PXN
Bell & Howell 8080S SCSI	BH8000.PXN
Bell & Howell 8100D SCSI	BH8000.PXN
Bell & Howell 8100S SCSI	BH8000.PXN
Bell & Howell 8125D SCSI	BH8000.PXN
Bell & Howell 8125S SCSI	BH8000.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
Bell and Howell 2000 FB	BH2000.PXN
Bell and Howell 730DC FB	BH730DC.PXN
Bell+Howell 2135 w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 2137 w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 2138A w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 3338 World Trade w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 3338A w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 6338 Duplex w/Adrenaline	KOFAXIC3.PXN
Bell+Howell 8080D/8125D Video w/Adrenaline	KOFAXIC3.PXN
Canon CanoScan 300 w/ASPI	CANON.PXN
Canon CanoScan 300 w/ASPI (extended resolutions)	CANONX.PXN
Canon CanoScan 600 w/ASPI	CANON.PXN
Canon CanoScan 600 w/ASPI (extended resolutions)	CANONX.PXN
Canon DR-2080C	DR2080C.PXN
Canon DR-3020	CANON_DR.PXN
Canon DR-3060	DR3080.PXN
Canon DR-3080C	DR3080.PXN
Canon DR-4080U	DR4080.PXN
Canon DR-4580U	DR4580.PXN
Canon DR-5020	CA5080.PXN
Canon DR-5060F	DR5060.PXN
Canon DR-5080C	CA5080.PXN
Canon GP215/210	CANGP200.PXN
Canon GP315/355/405	CANGP200.PXN
Canon GP335/405	CANGP200.PXN
Canon image RUNNER 330/400	CANGP200.PXN
Canon IX-3010 w/ASPI	CANON.PXN
Canon IX-3010 w/ASPI (extended resolutions)	CANONX.PXN
Canon IX-4015 w/ASPI	CANON.PXN
Canon IX-4015 w/ASPI (extended resolutions)	CANONX.PXN
Canon IX-4025 w/ASPI	CANON.PXN
Canon IX-4025 w/ASPI (extended resolutions)	CANONX.PXN
Canon MS 400/500	CANONMS.PXN
Canon MS 800	MS800.PXN
Canon MS300	MS300.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
Canon RFS 1000	CANONRFS.PXN
Epson ES-1000C	EPSON.PXN
Epson ES-1000C with Transparency	EPSONT.PXN
Epson ES-1200C	EPSON.PXN
Epson ES-1200C with Transparency	EPSONT.PXN
Epson ES-1400C	EPSON.PXN
Epson ES-1400C with Transparency	EPSONT.PXN
Epson ES-300C	EPSON.PXN
Epson ES-300C with Transparency	EPSONT.PXN
Epson ES-300GS	EPSON.PXN
Epson ES-300GS with Transparency	EPSONT.PXN
Epson ES-600C	EPSON.PXN
Epson ES-600C with Transparency	EPSONT.PXN
Epson ES-800C	EPSON.PXN
Epson ES-800C with Transparency	EPSONT.PXN
Epson Expression 636	EPSON.PXN
Epson Expression 636 with Transparency	EPSONT.PXN
Epson Expression 836XL	ES836.PXN
Epson GT-10000	GT10000.PXN
EPSON GT-10000 Plus	GT10P.PXN
EPSON GT-30000	GT30000.PXN
Epson GT-4000	EPSON.PXN
Epson GT-4000 with Transparency	EPSONT.PXN
Epson GT-6000	EPSON.PXN
Epson GT-6000 with Transparency	EPSONT.PXN
Epson GT-6500	EPSON.PXN
Epson GT-6500 with Transparency	EPSONT.PXN
Epson GT-8000	EPSON.PXN
Epson GT-8000 with Transparency	EPSONT.PXN
Epson GT-8500	EPSON.PXN
Epson GT-8500 with Transparency	EPSONT.PXN
Epson GT-9000	EPSON.PXN
Epson GT-9000 with Transparency	EPSONT.PXN
Epson GT-9500	EPSON.PXN
Epson GT-9500 with Transparency	EPSONT.PXN
Epson Scanner (Generic Model)	EPSON.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
Epson Scanner (Generic Model) with Transparency	EPSONT.PXN
Fujitsu 3093DE w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3093E w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3096E w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3096E+ w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3096EX w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3097DE w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3097E/E+ w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3097EX w/Adrenaline	KOFAXIC3.PXN
Fujitsu 3099A w/Adrenaline	KOFAXIC3.PXN
Fujitsu fi-4110CU	FI4110U.PXN
Fujitsu fi-4120C	FI4120.PXN
Fujitsu fi-4220C	FI4120.PXN
Fujitsu fi-4340C	M4340.PXN
Fujitsu fi-4640S	M4640.PXN
Fujitsu fi-4750C	M4750.PXN
Fujitsu fi-4750L	M4750L.PXN
Fujitsu fi-4860C	M4860.PXN
Fujitsu fi-4990C	M4990.PXN
Fujitsu M3091DCd	F3091.PXN
Fujitsu M3092DCd	F3091.PXN
Fujitsu M3093DE (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
Fujitsu M3093DE (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3093DG	FUJIGINE.PXN
Fujitsu M3093DG (extended resolutions)	FUJIGINX.PXN
Fujitsu M3093E with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3093EX with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3093GX	FUJIGINE.PXN
Fujitsu M3093GX (extended resolutions)	FUJIGINX.PXN
Fujitsu M3096E Plus with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3096E with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3096EX with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3096G	FUJIGINE.PXN
Fujitsu M3096G (extended resolutions)	FUJIGINX.PXN
Fujitsu M3096GX	FUJIGINE.PXN
Fujitsu M3096GX (extended resolutions)	FUJIGINX.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
Fujitsu M3097DG	FUJIGINE.PXN
Fujitsu M3097DG (extended resolutions)	FUJIGINX.PXN
Fujitsu M3097E with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3097EX with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3097G	FUJIGINE.PXN
Fujitsu M3097G (extended resolutions)	FUJIGINX.PXN
Fujitsu M3099A (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
Fujitsu M3099A (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Fujitsu M3099G	FUJI3099.PXN
Fujitsu M3099GH	FUJI3099.PXN
Fujitsu M3099GX	FUJI3099.PXN
Fujitsu M3192B	FUJIGIN3.PXN
Fujitsu M4097D	M4097.PXN
Fujitsu M4099D	FUJITSU.PXN
Fujitsu ScanPartner 10	FJSP.PXN
Fujitsu ScanPartner 10C	FJSP.PXN
Fujitsu ScanPartner 600C	FJSP.PXN
Fujitsu ScanPartner 93GX	FUJIGINE.PXN
Fujitsu ScanPartner E.O.	FUJIGIN3.PXN
Fujitsu ScanPartner Jr.	FJSP.PXN
Fujitsu ScanPartner93GX (extended resolution)	FUJIGINX.PXN
Heidelberg CPS Jade w/ASPI	LINOHELL.PXN
Heidelberg CPS Saphir Ultra 2w/ASPI	LINOHELL.PXN
Heidelberg Image Direct 665	IMDIR665.PXN
HP OfficeJet Pro 1150C PictureScan	HP1150C.PXN
HP Scanjet	SCANJET.PXN
HP Scanjet (extended resolutions)	SCANJETX.PXN
HP Scanjet 3c	SCANJET.PXN
HP Scanjet 3c (extended resolutions)	SCANJETX.PXN
HP Scanjet 4100c	SCANJET.PXN
HP Scanjet 4100c (extended resolutions)	SCANJETX.PXN
HP Scanjet 4c	SCANJET.PXN
HP Scanjet 4c (extended resolutions)	SCANJETX.PXN
HP Scanjet 4p	SCANJET.PXN
HP Scanjet 4p (extended resolutions)	SCANJETX.PXN
HP Scanjet 5100c	SCANJET.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
HP Scanjet 5100c (extended resolutions)	SCANJETX.PXN
HP Scanjet 5200c	SCANJET.PXN
HP Scanjet 5200c (extended resolutions)	SCANJETX.PXN
HP Scanjet 5p	SCANJET.PXN
HP Scanjet 5p (extended resolutions)	SCANJETX.PXN
HP Scanjet 5s	HP5S.PXN
HP Scanjet 6100c	SCANJET.PXN
HP Scanjet 6100c (extended resolutions)	SCANJETX.PXN
HP Scanjet 6200c	SCANJET.PXN
HP Scanjet 6200c (extended resolutions)	SCANJETX.PXN
HP Scanjet 6250c	SCANJET.PXN
HP Scanjet 6250c (extended resolutions)	SCANJETX.PXN
HP Scanjet 6350c	SCANJET.PXN
HP Scanjet 6350c (extended resolutions)	SCANJETX.PXN
HP Scanjet 7400	HP7400.PXN
HP Scanjet IIc	SCANJET.PXN
HP Scanjet IIc (extended resolutions)	SCANJETX.PXN
HP Scanjet IIcx	SCANJET.PXN
HP Scanjet IIcx (extended resolutions)	SCANJETX.PXN
HP Scanjet IIIp	SCANJET.PXN
HP Scanjet IIIp (extended resolutions)	SCANJETX.PXN
HP Scanjet IIp	SCANJET.PXN
HP Scanjet IIp (extended resolutions)	SCANJETX.PXN
HP Scanjet Plus	SCANJET.PXN
HP Scanjet Plus (extended resolutions)	SCANJETX.PXN
Infotec 5402 MF	INFO5402.PXN
Kodak Digital Science 1500 Scanner	DS1500.PXN
Kodak Digital Science 1500/2500	DSSCAN.PXN
Kodak Digital Science 2500 Scanner	DS2500.PXN
Kodak Digital Science 3500 Scanner	EKDS3500.PXN
Kodak Digital Science 3510 Scanner	EKDS3510.PXN
Kodak Digital Science 3520 Scanner	EKDS3520.PXN
Kodak Digital Science 3590 Scanner	EKDS3590.PXN
Kodak Digital Science 4500 Scanner	EKDS4500.PXN
Kodak Digital Science 4500 Scanner (B&W default)	EKDS450B.PXN
KODAK i50	EKI50I60.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
KODAK i60	EKI50I60.PXN
Microtek ScanMaker X6EL	MT636EL.PXN
Minolta PS7000	MIN7PS.PXN
Nikon SCANTOUCH Scanner	NIKON.PXN
Panasonic KV-S Series	KVSSCAN.PXN
Panasonic KV-S2025C/S2045C	KVS2025.PXN
Panasonic KV-S2055B w/SCSI	PANA2055.PXN
Panasonic KV-S2055L w/SCSI	PANA2055.PXN
Panasonic KV-S2055W w/SCSI	PANA2055.PXN
Panasonic KV-S6040W w/SCSI	PANA6045.PXN
Panasonic KV-S6045W w/SCSI	PANA6045.PXN
Panasonic KV-SP500 (simplex and duplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Panasonic KV-SP505 (simplex and duplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
Panasonic KV-SS25 w/SCSI	PANASCSI.PXN
Panasonic KV-SS50 w/SCSI	PANASCSI.PXN
Panasonic KV-SS50EX w/SCSI	PANASCSI.PXN
Panasonic KV-SS55 w/SCSI	PANASCSI.PXN
Panasonic KV-SS55EX w/SCSI	PANASCSI.PXN
Panasonic KV-SS60EX w/SCSI	PANASCSI.PXN
Panasonic KV-SS60N w/SCSI	PANASCSI.PXN
Panasonic KV-SS65EX w/SCSI	PANASCSI.PXN
Panasonic KV-SS65N w/SCSI	PANASCSI.PXN
Panasonic KV-SS850 w/SCSI	PANA85X.PXN
Panasonic KV-SS855 w/SCSI	PANA85X.PXN
Panasonic KV-SS905C	KVSS.PXN
Photron w/ASPI	PHOTRON.PXN
Polaroid Digital Scanner CS-500i	POLAROID.PXN
Ricoh Aficio 401	RICOH401.PXN
Ricoh FS-2	RICOHFS2.PXN
Ricoh IS-01	RICOHIS1.PXN
Ricoh IS-330	RICOH330.PXN
Ricoh IS-410 and IBM 2456	RICOH410.PXN
Ricoh IS-410 and IBM 2456 w/WINASPI	RICOH41W.PXN
Ricoh IS-420	RICOH420.PXN
Ricoh IS420 with Kofax Kipp 2.12	KFSIMPLX.PXN

Supported scanner list	
Scanner	**ISIS® driver used**
Ricoh IS-430	RICOH420.PXN
Ricoh IS-450	RICOH450.PXN
Ricoh IS-50	RICOH560.PXN
Ricoh IS-50 (with extended resolutions)	RICOH56X.PXN
Ricoh IS-510 and IS-520	RICOH520.PXN
Ricoh IS-60	RICOH560.PXN
Ricoh IS-60 (with extended resolutions)	RICOH56X.PXN
Ricoh RS-2200	RS2200.PXN
Scan-Optics 5xxx/9xxx w/Adrenaline	KOFAXIC3.PXN
TDC/Banctec 2610 (duplex) with Kofax Kipp 2.1	KOFAXBIC.PXN
TDC/Banctec 2610 (simplex) with Kofax Kipp 2.1	KFSIMPLX.PXN
TWAIN scanner support	PIXTWAIN.PXN
Umax Astra 2400S	UA2400S.PXN
Visioneer 9650	VISIONER.PXN
Xerox DocuImage 620S	DOCU620S.PXN

To setup the chosen scanner

- select Setup
- select Default Paper size à A4
- click on **OK** twice
- select Setup Scanner.

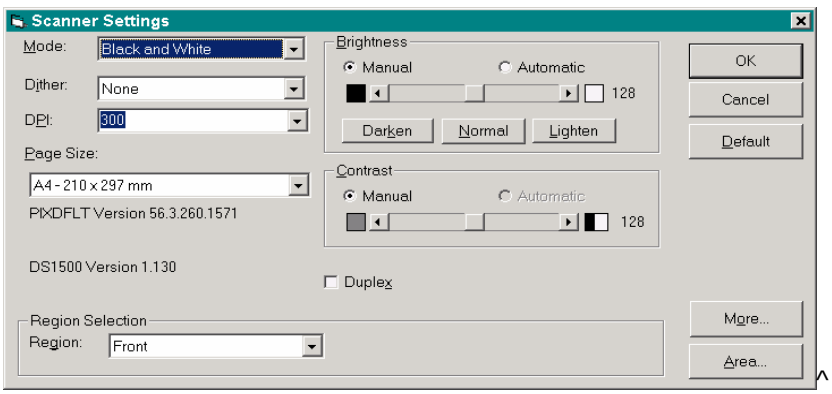

Figure 69: scanner settings

For Mode Black and white:

- select Mode: Black and White.
  - select dither:
    - none.
  - select DPI:
    - 300.
  - select Paper Size:
    - A4 (210 x 297 mm).
  - click on **More**

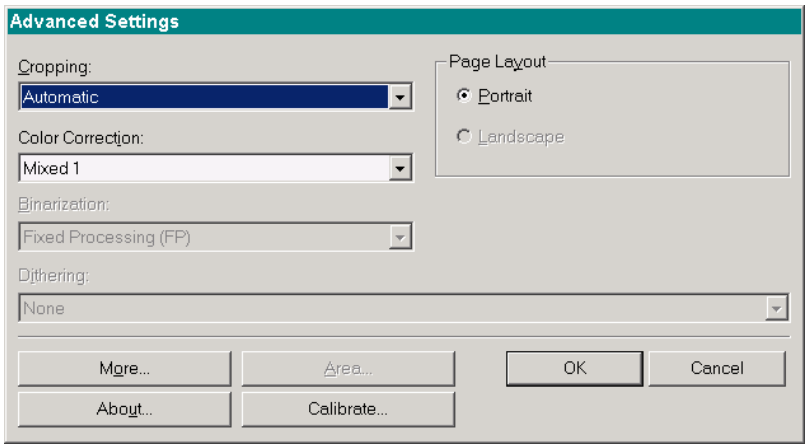

Figure 70: advanced settings colour

- select automatic cropping
- click on **OK.**

For Mode Color 24 bits:

- select Mode: color 24 bits.
  - select dither:
    - none.
  - select DPI:
    - 300.
  - select Paper Size:
    - A4 (210 x 297 mm).
  - click on **More**

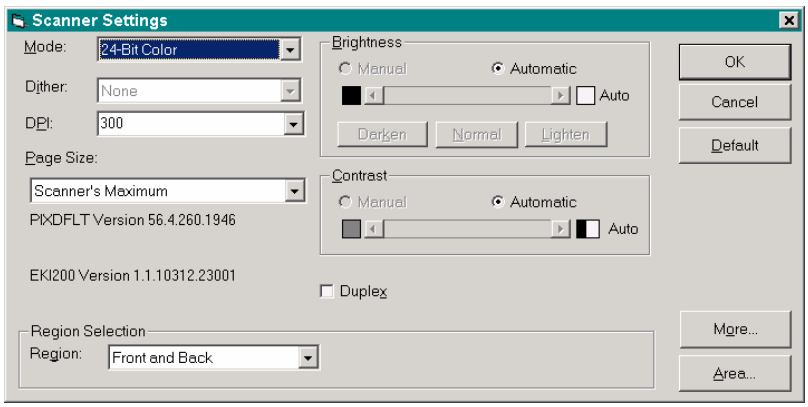

Figure 71: advanced settings black and white

- select automatic cropping
- click on **OK.**

11.2.3 For a Kodak scanner

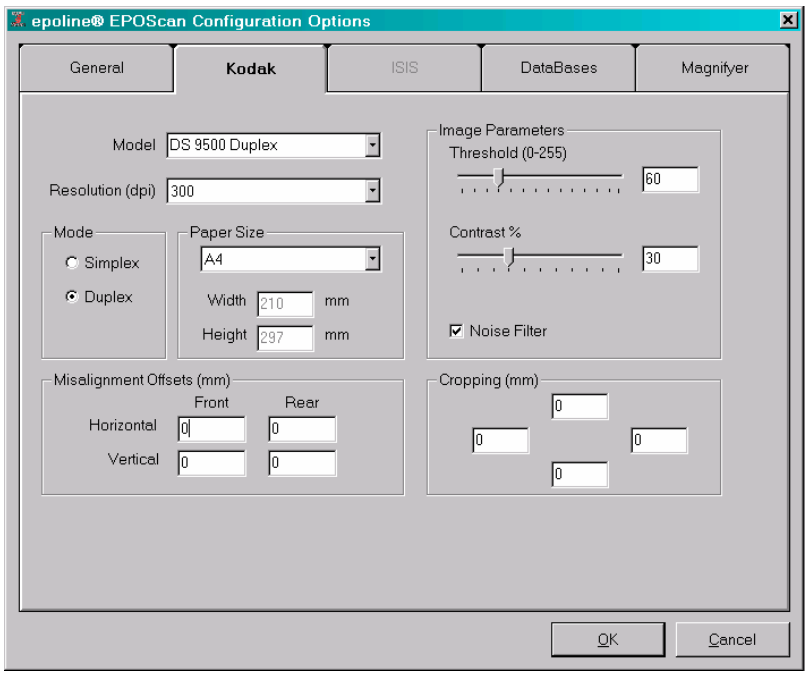

Figure 72: Kodak scanner configuration

To configure settings

- select Model
- select Resolution:
  - 300 DPI
- select Paper Size:
  - A4.

11.3 Image enhancement

During or after scanning the need to improve image quality may become apparent. With image enhancement epoScan provides a range of tools which can improve the quality of scanned images.

Note

Please bear in mind that every applied enhancement takes computer/scanner processing time and will slow down the overall scanning process.

Image enhancement implies some modification of the image. Test the settings first to ensure that they do not cause any loss of data, such as faint text.

Never perform the same enhancement twice as this can produce very strange results.

epoScan scan offers the possibility to enhance the quality of images , for example de-skew and black border removal, by applying certain image enhancements. Enhancement of images can be executed in three different phases of the process:

- during scanning
- during CD generation
- as a separate process.

For the first two options the user is required to select which enhancement options they intend to apply. Select Image à Batch Image Enhancement à Setup in the main window.

The **Setup of Image Enhancement** screen is displayed.

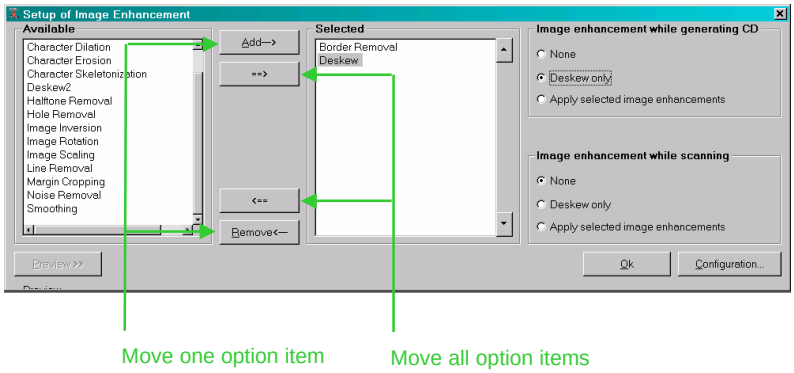

Figure 73: setup of image enhancement

Note

EPO experience has shown that the order of the options is important; the options selected in the window above, Border Removal and Deskew, are normally used and added in that order.

Click on **OK**. The **image enhancement configuration** screen is displayed.

11.3.1 Image enhancement deskew

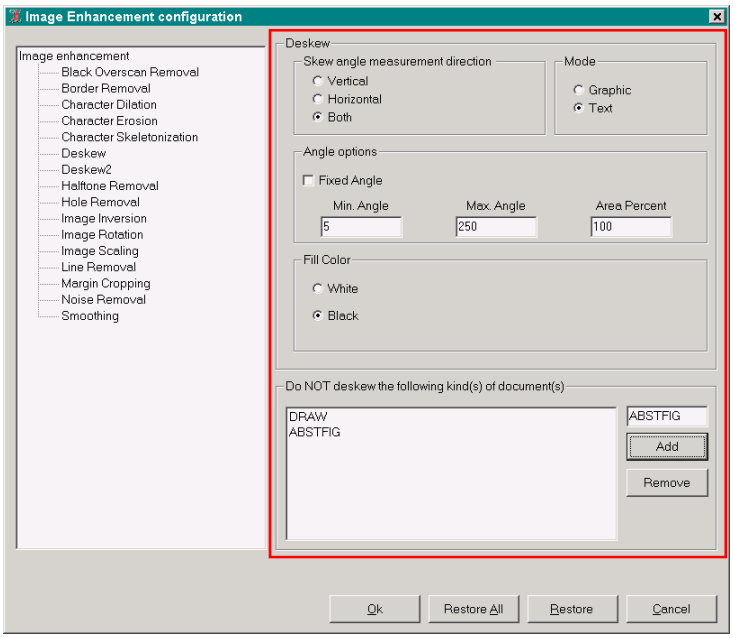

Figure 74: image enhancement configuration

The default values are shown, but they can be altered as desired.

When de-skewing pages, most image enhancement tools will in some cases not properly deskew drawings. To prevent this the EPO has chosen to exclude drawings from deskewing.

11.3.2 Image enhancement image rotation

Click on **Image Rotation**.

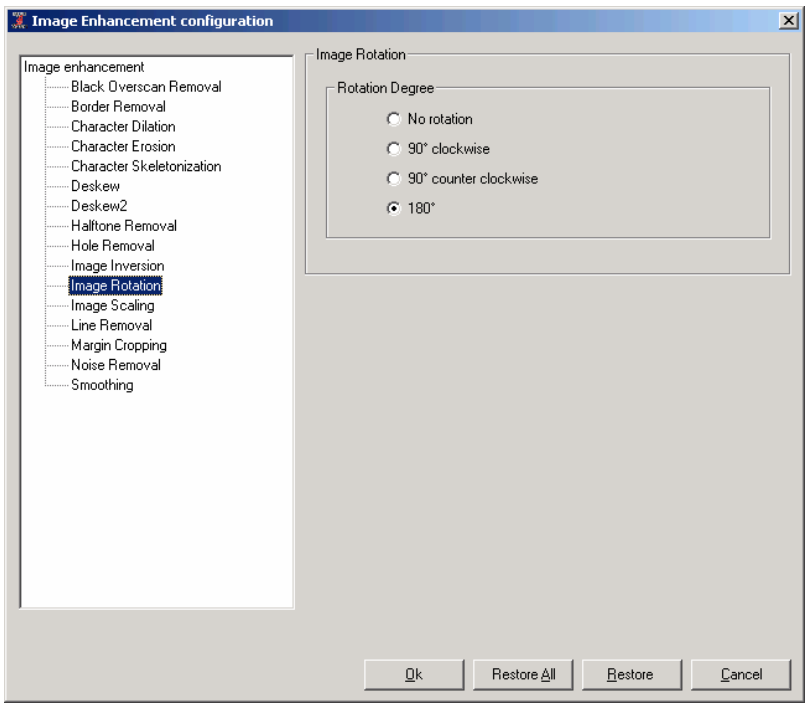

Figure 75: image rotation

Rotation Degree should be set to 180° by clicking on that radio button. This allows rotating individual pages during Document Correction, which are scanned up side down.

11.3.3 Image enhancement colour settings

Click on **Black Overscan Removal**. There are no settings which can be modified by the user.

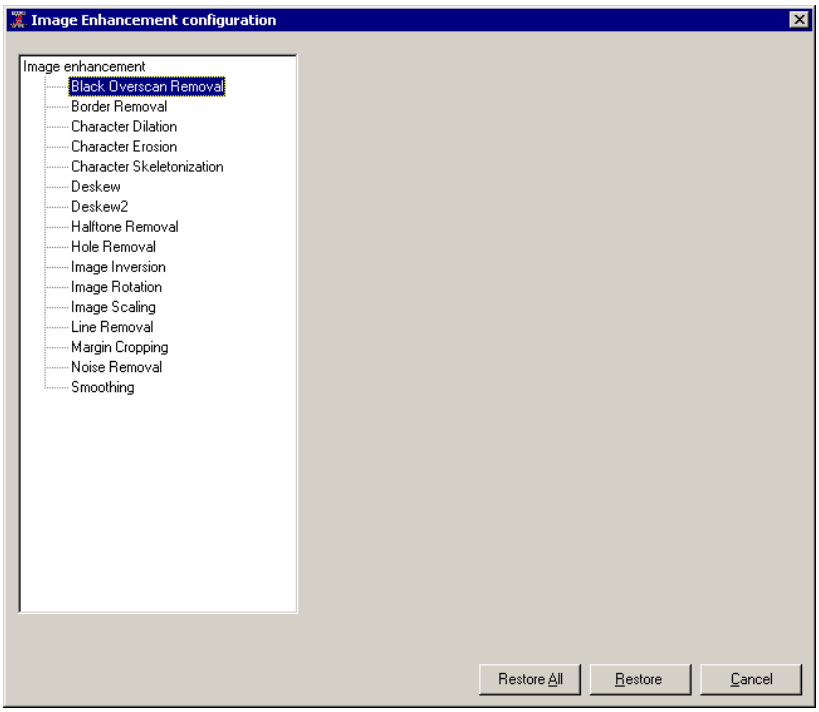

Figure 76: black overscan removal

Click on **Deskew2**. The default settings, which can be modified, are displayed.

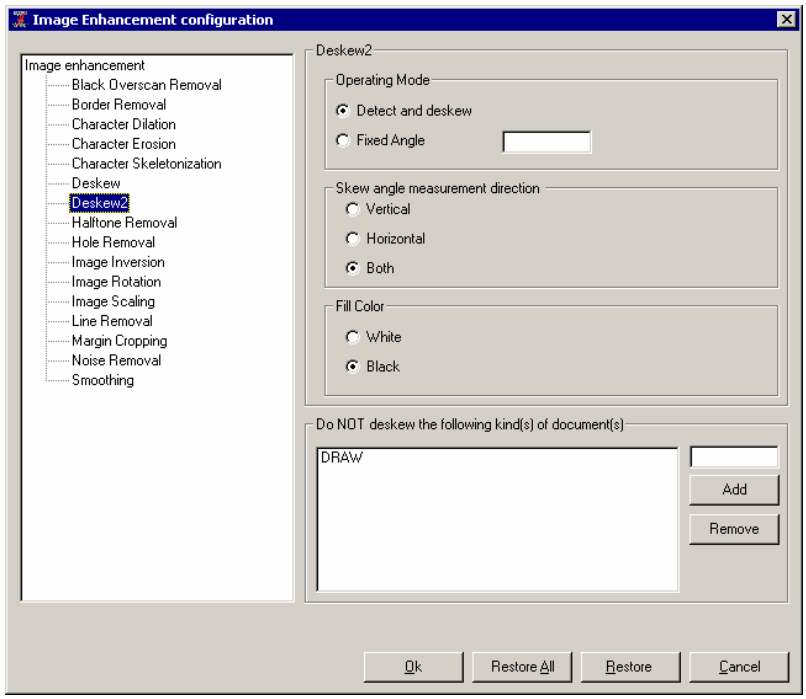

Figure 77: deskew2

Both **Black Overscan Removal** and **Deskew2** must be set in order to perform colour scanning.

11.3.4 Image enhancement preview

To preview the results of the selected image enhancement options select Image à Batch Image Enhancement à Select a Batch à Select Setup à Select Preview in the main Window. In the left window the image is displayed as scanned and in the right window the image is displayed after enhancement.

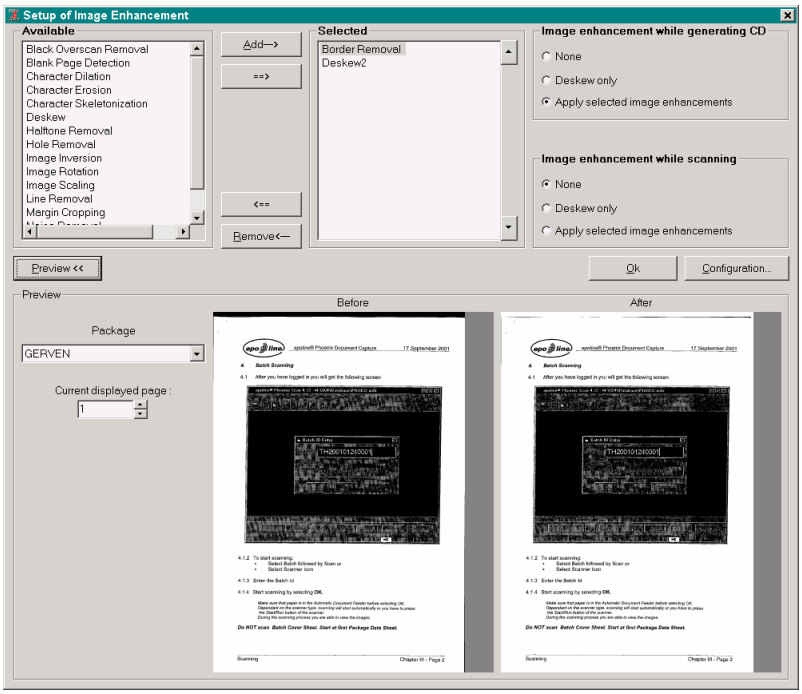

Figure 78: image enhancement setup

11.3.5 While scanning

The decision to apply image enhancement during scanning is dependent on several factors such as

- the capacity of scan work station
- the performance of scan work station
- the type of scanner
- the page orientation (rotation) selected
- the type of documents (simplex or duplex).

because all these factors influence and can slow down the scan process.

Select Batch à Scan à Setup in the main window and select by clicking on the radio buttons.

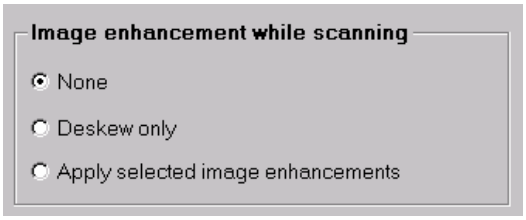

Figure 79: image enhancement while scanning

11.3.6 While generating CD

If it is decided to execute Image Enhancement during CD generation (only applicable for Application Batches) select this option on the General settings window.

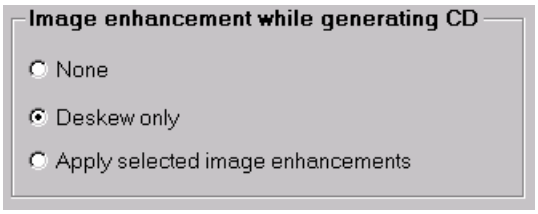

Figure 80: image enhancement while generating CD

11.3.7 As a separate process

In the main Window select Image à Batch Image Enhancement à Select Batch(es) à Select OK.

Image enhancement will now be applied to all images of the selected batches/packages.

11.4 Calibration Manager

The Calibration Manager should be used to calibrate the scanner. In the main window:

- select **Setup**
- select **Calibration Manager**.

The wizard will guide the user through the calibration process

If the quality of the image is not satisfactory then changes to the scanner settings, such as brightness and contrast, can be made.

Changes to the scan area can also be made.

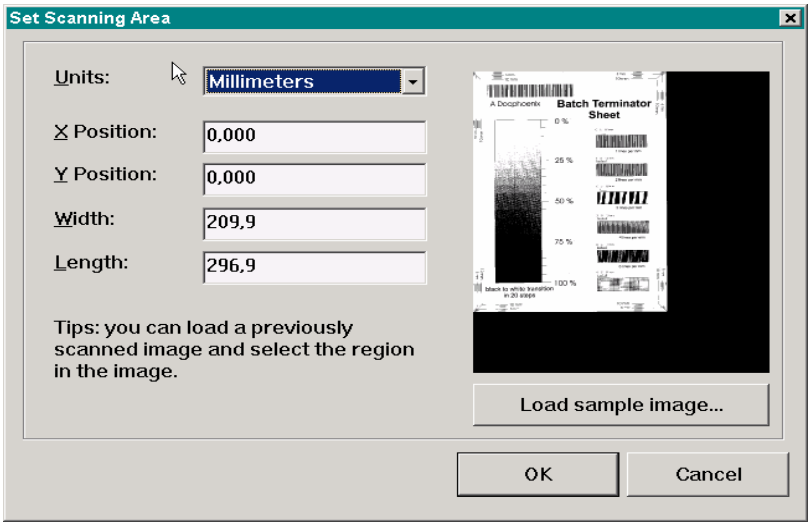

Figure 81: set scanning area

Use the batch terminator sheet as a calibration sheet.

12 Administration

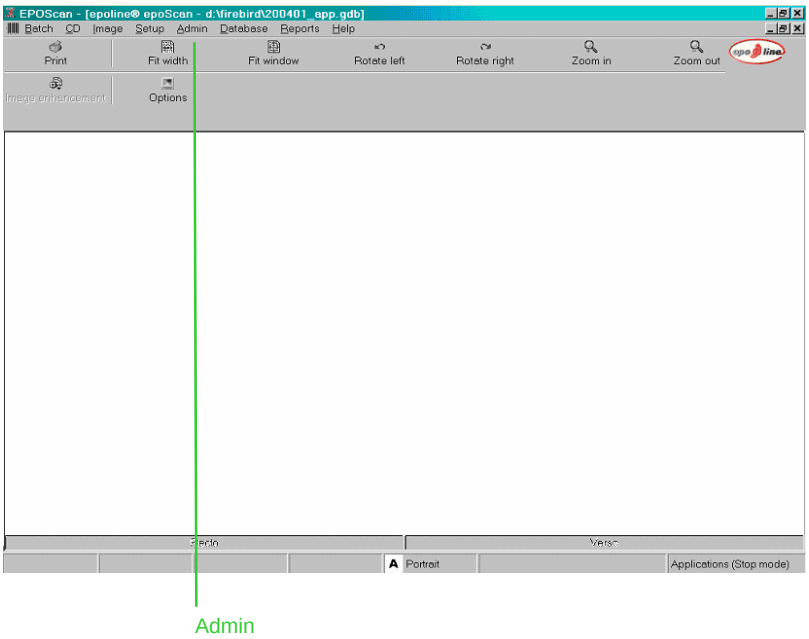

Figure 82: epoScan initial screen

Click on **Admin**. The administration drop-down menu will be displayed.

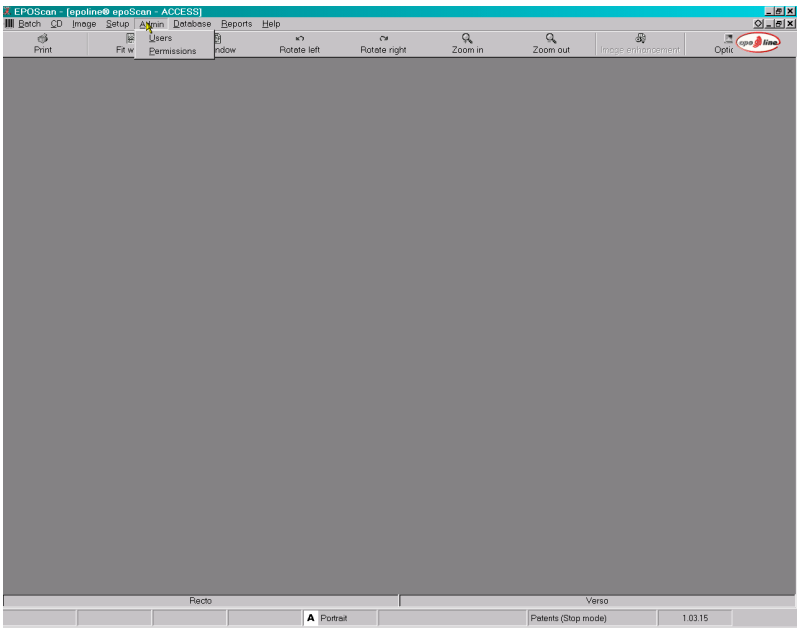

Figure 83: administration drop-down menu

12.1 Users

Click on **Users**. The **Security** screen will be displayed.

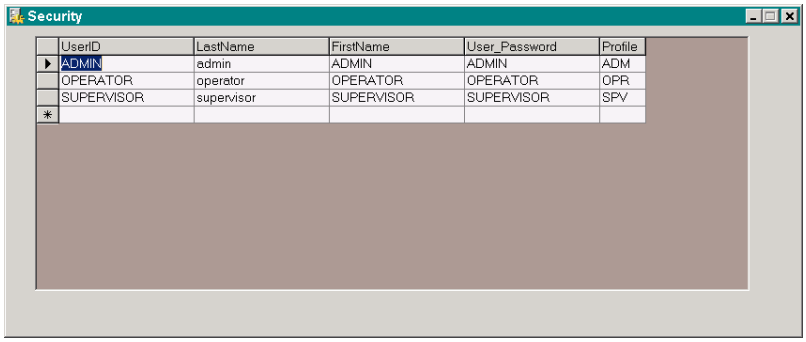

Figure 84: security

Click on a field to display further information.

12.1.1 Adding a new user

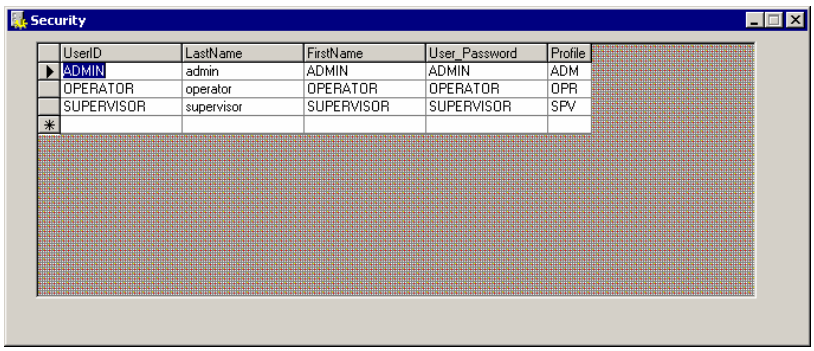

Figure 85: blank line

Enter the details in each column in order to define the new user.

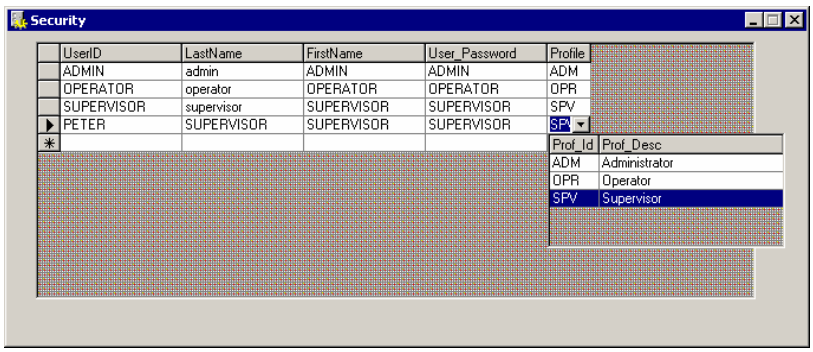

Figure 86: add profile and confirm

Either type in the profile designation code or use the drop down menu which will appear. Click on any field in the following line to confirm the user definition that has just been entered.

12.2 Permissions

Click on **Admin**. The **Allow Operations** screen will be displayed.

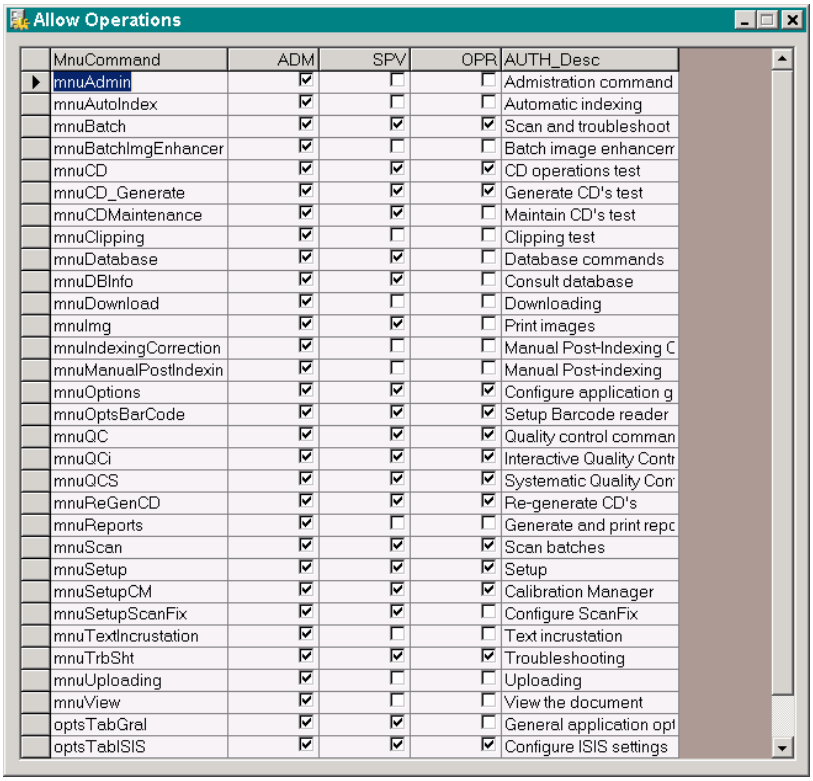

Figure 87: allow operations

Check or uncheck boxes to grant or remove permissions.

13 Database batch status

If the scanning operator reports that a batch is no longer available for CD generation this is due the fact that the status of this batch is such that it no longer appears in the list of batches available for generation.

To correct this problem an operator with administration rights can correct or change the status of affected batches by resetting the status back to - 1 - (Scanned).

The list indicating which error status can be set back to 1 can be configured in the Patentes.ini file sub section [BATCHSTATUS]. In the example all batches have status 9, 32, 65 and 73 can be modified to status 1. CurrentStatus means last status used.

```
[BATCHSTATUS]
CurrentStatus=9
Status1=9
Status2=32
Status3=65
Status4=73
```

To do this the administrator has to go to the **ACCESS** window and select **Batch status modification** from the Database tab drop-down menu.

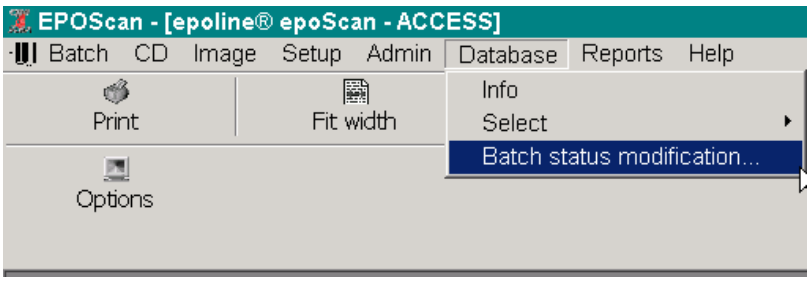

Figure 88: access window

The next window is displayed with the batches in status 9 (CurrentStatus). Another status can be selected if the batches sought are not in the list.

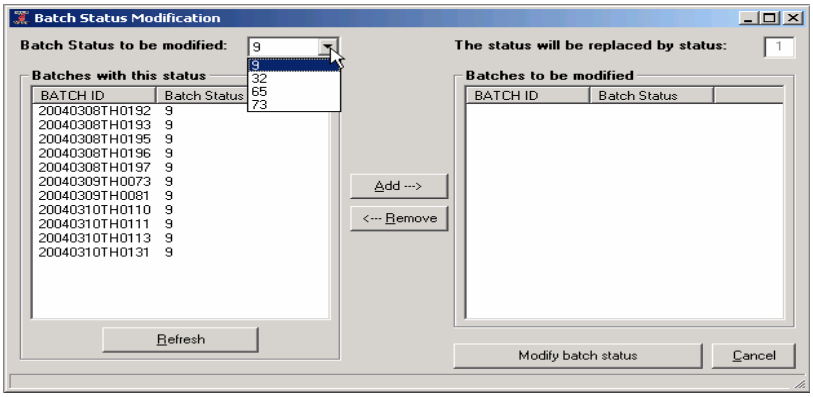

Figure 89: batches with this status

Select one or more batches from **Batches with this status** and click on **Add** to place them in **Batches to be modified.**

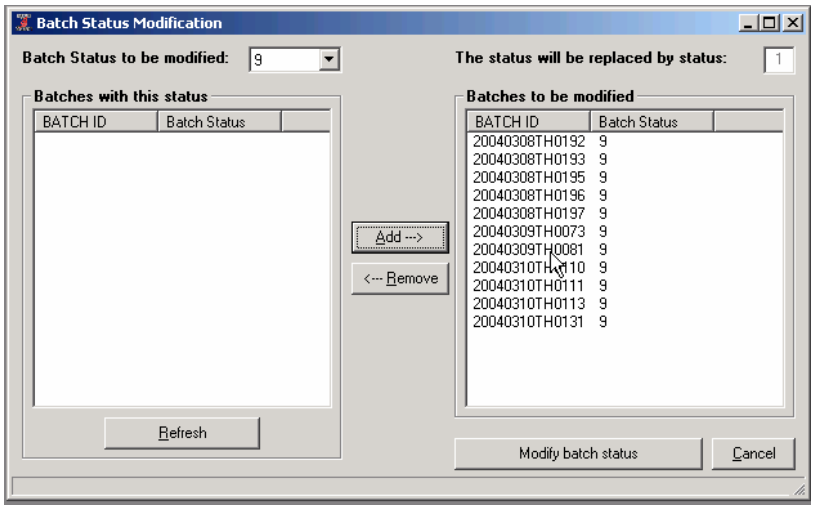

Figure 90: batches to be modified

Click on **Modify batch status**. Batches will be available again for CD generation

Glossary

Glossary	
Abbreviation	**Meaning**
ASPI driver	An ASPI driver is a software driver or program that uses the Advanced SCSI Programming Interface (ASPI) protocol to interface with the Small Computer System Interface (SCSI) bus.
DMS	Database Management System
DSS	Document Separator Sheet
EPO	European Patent Office
GUI	Graphical User Interface
HDD	Hard Disk Drive
ISIS	Image and Scanner Interface Specification
NO	National Office
OCR	Optical Character Recognition
SCSI	Small Computer System Interface

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