



Doorway

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Getting started.

Doorway Systems

7 Chanctonbury Way,
Crawley,
West Sussex,
RH11 8TE
United Kingdom

Telephone: +44 (0)7973 223643

Fax: +44 (0)1293 531923

E-mail: sales@doorway.co.uk

<http://www.doorway.co.uk>

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Introduction

Thank you for purchasing *Doorway*, and we hope that you find it easy to use. It is assumed that you are reasonably familiar with Microsoft Windows and the principles of your Building Management System (BMS) product. *Doorway* works with BMS products from Trend Control Systems Ltd and the SeaChange product from Smartcontrols Ltd, as well as the rapidly growing range of *LonWorks*® compatible devices.

Doorway is designed for Microsoft Windows XP, 2000, NT4, ME, 98 and 95 which protects your investment both now and in the future. *Doorway* is designed to add value to your investment in BMS technology.

Pictorial displays of plant with live information superimposed enables better diagnosis of plant conditions than character based lists. Pictures can be created using almost any Windows design package, including Visio, Corel Draw, AutoCad and Microsoft Office PowerPoint. Visio users should try our custom templates which we ship on the *Doorway* CD. The set-up program places these in your *Doorway* folder, then you can move them to the Visio\Solutions folder. It is recommended that Visio is installed in folder C:\VISIO.

Doorway includes some BMS engineering tools, and our sensible low cost multi-user licence policy makes having multiple users practical.

Doorway supports industry standard modems, including specification V92 (56Kbaud), which can give full speed access to a site's BMS. *Doorway* also supports the proprietary *MNC* and *TMN* modems which do not use industry standard data transmission methods.

Industry standard Modems to specification V34 through to V92 use North American Phase Shift modulation which **cannot** communicate with the earlier European V23 (1200 baud) specification which uses Frequency Shift modulation used in the legacy *MNC* product designed by the writer in the 1980's.

Doorway can utilise the considerable investment users have made in IT networking technology and route BMS data to any PC across the user site(s), even many miles apart. This eliminates the speed penalty, capital and maintenance costs of modems and dial-up telephone lines. Data and alarms from all remote sites can appear on the same page if required. By contrast with modems and dial-up telephone lines simultaneous display is not possible, and alarms from remote sites are blocked when the modem is on line to another site.

Doorway Systems has a policy of regularly enhancing the features of the *Doorway* software in response to user suggestions, and updates are available free from our Internet Web site:-

<http://www.doorway.co.uk>

Comprehensive instructions are provided in the **Help** facility, and are therefore available on screen at all times. We believe this is the best way of providing you with up to date information in our continuously evolving product. All Help topics may of course be printed at any time.

To access the Help facility when running *Doorway* choose **Contents** from the **Help** menu. You may then jump from help topic to topic by clicking on the underlined keywords in the help screen. All the pages may be browsed using the next >> and previous << buttons, or searched using the **Search** button. The powerful "in context" help feature is activated either by pressing the **F1** key on the keyboard while attempting a task, or clicking the ? or Help button which is shown on many screens. *Doorway* tries to show the most appropriate help page for each task.

Now to get started, please follow the installation instructions in the next section.

Installing Doorway onto your PC

The software is shipped on high quality CD and includes a licence floppy disk. The software is copy protected, and you **cannot** create working copies of the encryption mechanism on the licence disk supplied. This protection enables us to keep the software price low.

A single-user licence of *Doorway* provides 1 installation token, which releases the full features of *Doorway*. You may also install additional copies of *Doorway* on other PCs, but they will only work in a demonstration mode, and the Set-up program will tell you that the installation is incomplete. You may move the licence token between machines at any time quite easily.

The licence token when installed consists of encrypted files in a folder on your hard drive with attribute 'hidden' inside the *Doorway* folder. Do not move or alter any of these files since this will permanently invalidate the licence token. It is very unlikely that a user could accidentally change these files. Licences are keyed by serial number to the original master licence disk.

The licence token is compatible with Microsoft's **DriveSpace** and **Defrag** utilities. Norton **SpeedDisk** requires setting to **not** move *HIDDEN* or *SYSTEM* files. Backup of the data from *Doorway* installations is straightforward, some can even fit on a single floppy disk. However it is necessary to deinstall the licence token before Restoring archived backups to the *Doorway* folder or creating **DriveSpace** drives. Reinstall the licence after the operation is complete, using *Doorway*'s **SETUP** program, choose option 'Re-install licence'.

Doorway may be used in a Client/Server mode over IT Networks, you can locate page files on a central file server to ensure all users use the same data set. Multi-user licence holders may if desired install the complete *Doorway* program on a file server. The licence protection is compatible with Windows networking. *Doorway* can then be made available at any PC on the site connected to the IT network. See your IT network administrator about setting up suitable IT 'access rights', The *Doorway IT Gateway* enables routing of communications from remote PC's to the PC with the BMS hardware connection, e.g. CNC or SLT.

First time installation:

- 1) *Windows 95* and *98* users with legacy 'real mode' drivers should ensure that free conventional (DOS) memory is more than 500K bytes using the DOS MEM command. If not then you must temporarily disable some drivers in CONFIG.SYS to release workspace for the licence installation.
Windows XP, 2000, NT4 and ME installation is as below.
- 2) If in Windows already it is recommended to Exit and then restart Windows to ensure memory is clean. Ensure no other application is running.
- 3) Insert the CD into CD drive, the CD should start.
if not from Windows Start menu choose Run...
Type X:\DOORWAY\SETUP and click OK. where X is the drive letter of the CD drive.

When the Doorway Set-up screen appears, select option 1 - Complete Program, and press the *Setup* button. You may install a *Doorway* multi user licence onto a suitable shared drive or fileserver using the *Network* Setup option which installs all files in the same folder.

To recover licence back to floppy disk:

You can only recover a licence to its originally supplied disk set.

- 1) Insert the CD into CD drive, the CD should start.
if not from Windows Start menu choose Run...
Type X:\DOORWAY\SETUP and click OK. where X is the drive letter of the CD drive.

When the Doorway Set-up screen appears, select option 7 - De-Install Licence.

To reinstall licence:

- 1) Insert the CD into CD drive, the CD should start.
if not from Windows Start menu choose Run...
Type X:\DOORWAY\SETUP and click OK. where X is the drive letter of the CD drive.

When the Doorway Set-up screen appears, select option 6 - Re-Install Licence.

Your CD and licence disk are valuable, do not lose them!

Portable PC's with single drive bay for 3.5" Floppy disk or CD drive.

Some portable PC's only have a single drive bay for a 3.5" Floppy disk or CD drive. Use the CD drive to install Doorway as above but deselect *Option 6 - Install Licence*. When complete remove the CD and follow your manufacturers instructions on how to connect the 3.5" Floppy disk drive.

Now insert Doorway Licence disk and from Windows Start menu choose Run... Then type A:\SETUP and click OK. In the Doorway Set-up program select *Option 6 - Install Licence*.

Starting Doorway

To start the program from the Windows Start button select *Programs - Doorway - Doorway* in the normal way.

If the *Doorway* program is already running a second copy will not start. A *Loading, please wait...* message will be followed by the main screen and the program licence screen. The licence screen will disappear after a few seconds, or may be closed sooner by mouse clicking on its close button.

Notice that for your convenience *Doorway* always starts with its screen full size, and starts by trying to load a file called AUTO.DAT. This will initially be the *Doorway* advertising picture until you create your own page and save as the file AUTO.DAT. You may also change the starting file by selecting the desired file and folder using *Doorway* menu *File - Startup Page & Paths*.

When the program is running you can experiment with the supplied sample pages, jumping from page to page by clicking (once) on the grey buttons, which we shall refer to as *Jump Buttons*. *Doorway* follows Microsoft's user interface recommendations where *selections* are by single mouse click, and double mouse clicks are used for short cuts. For example *selecting an item* then *clicking* the OK button can be replaced by a double click selection.

Tutorial

A short on screen tutorial is available which does not require connection to a BMS. The tutorial is started from the Help menu and presents many of *Doorway's* features.

The tutorial makes extensive use of *Doorway's* text capabilities. Text can be superimposed to a page very quickly, and even large coloured areas can be created as an outline for text or BMS data. Many of the sample pages do not actually use a picture.

Getting Data from the Building Management System

To get some data from your Building Management System (BMS) you must plug a suitable RS232 cable from the PC into the BMS hardware connection, see your BMS instructions for further details about this. Use the menu **Tools Communications** to select a communications port and baud rate, usually COM1 and 9600 baud. We recommend using 19200 baud where possible for best performance. Your changes are implemented immediately by Windows. Notice that there are several other options on this screen, which can be explored later.

If all is correct then some data may appear from a controller on the sample pages, which are all addressed to controller 20. *Lan error* simply means that address 20 is not present on your BMS network.

Doorway keeps your chosen settings for communications etc. in a file called DOORWAY.INI. When you make selections in *Doorway* this INI file is automatically updated to remember your preferences.

Doorway does not require hardware flow control and only the three connections TxData, RxData and Ground are used, which means that almost all RS232 cables will work, including most 9 to 25 way RS232 PC adopter cables from computer peripheral suppliers.

Direct connection to a controller's local port is possible for plant room convenience. Note that most controllers use a speed of 9600 baud at their local port. *IQ1xx* series controllers require the 'Direct Connect' communications option to be selected.

Sample Pages

All the supplied sample files have names starting with SAMPLE so it is suggested that you use different filenames for your own pages. The original installation AUTO.DAT is identical to SAMPLE00.DAT with picture file SAMPLE00.WMF, so you may safely change AUTO.DAT yet still be able to revert to the original at a later time if required.

The sample pages are installed by the Set-up program. These illustrate some of the features available in *Doorway*. Where data is called from the BMS, address 20 is used. Please note that the sample pictures are deliberately quite simple. This not only reduces master floppy disk requirements, but emphasises that simple pictures which are quick to build are low cost but can be just as useful to the busy building services engineer.

Doorway can display very much more detailed pictures, including *scanned* photographs, showing up to the full Windows capability of 16.7 million colours. The complexity and detail of page pictures is probably limited only by your time and imagination.

Building your own pages

Building a *Doorway* page is quite straightforward. You will need to start with a new blank page. Then you will choose a background colour if white is not appropriate. You will then add a picture or diagram as a backdrop if you wish, although this will have to be prepared using a separate drawing or painting package. You will then place Data Points on the page to show BMS data from controllers. You will add Jump Buttons to set jumps to other pages. You may give your page a title for the caption bar at the top of the screen and finally you will Save the Page to disk. In the following sections we will go through these stages in more detail.

Create a new page

Choose the menu **File New** to give a new blank page.

Choose a background colour

Select the menu **Edit Change Background Colour** to show the colour chart. *Doorway* can handle all of Windows' potential 16.7 million colours, sometimes referred to as '24 Bit' or 'TrueColor'. Your PC may offer you only 16 of these, but many other colours are created by 'dithering' colours together. The colour chart gives you some choice, and even lets you set custom colours as well. Experiment to see which colours look suitable. Incidentally many PC's now can show 256 colours by selecting a suitable display driver in Windows Set-up, check your system documentation, or just try it out, but remember which display driver worked before starting!

Choose a filename

Each page will be stored on disk and will need an unique filename. Now is a suitable time to choose the filename so that you can Save the page regularly as you build it, otherwise in case of a power failure you would lose your work. Choose menu **File Save As** and fill in the file save box in the normal way. This file is the DAT file which contains instructions about the layout and contents of the page. The picture will be in a separate file, see below.

Choose a picture

There are three ways of getting a drawing or picture into *Doorway*. Use the Windows clipboard with Copy and Paste, load an existing suitable format picture file, or use OLE to get seamless interfacing with your chosen drawing package. *Doorway* Systems recommends *Visio*, *Corel Draw* and *Microsoft Office PowerPoint* which all work well. Some *Visio* templates (*.VST) and stencils (*.VSS) are installed with *Doorway*, which you have to copy to your *Visio* installation.

Select menu **Edit Paste Picture** to paste a picture from the clipboard onto the *Doorway* page. If WMF and BMP formats are both present on the clipboard you will be given the choice. The WMF format automatically resizes to fit the page, with BMP resizing is optional. WMF are usually faster to redraw unless they are extremely complex. BMP draw at the same speed regardless of complexity. Experiment to see which works best on your PC.

Selecting menu **Edit Load Picture File** will show the choose picture file box. A file choice button will show the file selector for WMF and BMP files, and several other formats.

Windows MetaFile format (WMF) contain the instructions Windows uses to draw vector or 'shape' pictures. The Windows BitMaP format (BMP) consists of the data for every individual part of a picture, this is required in very highly detailed pictures such as photographs. Incidentally all applications have to convert internally to WMF or BMP to pass the picture to the Windows screen driver.

Select menu **Edit Insert New OLE Picture**, and from the list choose a suitable OLE application, or menu **Edit Insert New Visio OLE Picture**. Create your drawing in the OLE application. Use the OLE application menu **Update** from time to time to see how it looks in *Doorway* without closing the OLE application. Then the OLE application menu **Exit** when complete to insert the picture into the *Doorway* page.

Now use *Doorway* menu **File Save** to save the page and picture to disk. If you chose an existing picture file from disk then that filename is stored in the DAT file. If you Pasted in a picture from the clipboard then you are asked for a picture filename. Notice that *Doorway* suggests the same name as your DAT filename with the extension WMF, BMP or OLE as appropriate. You may of course choose another filename if desired. OLE picture files must use the extension OLE so that *Doorway* will recall the original application for further editing.

Advanced users should note that BMP pictures in dynamic images automatically resize with the page, and can be used with good effect to stretch backdrop photographs.

Adding Data Points

To show data from a BMS controller you need to place Data Points on the page. You can have up to 120 Data Points on each page.

Select menu **Edit Edit Mode** which first resizes the *Doorway* display, and then shows a yellow status bar at the bottom of the screen, and a colour palette at the right hand side. Select menu **Edit Add Data Point** which places a Data Point at the top left corner of the screen labelled *Data Point 1*. The yellow status box shows $\$Data\ Point\ 1$ from address 1. You can now edit the command to collect data from a controller using the manufacturers syntax.

Example: To get the value and units of sensor 1 enter $SI(V, \%)$. Set the controller address in the OS box and network in the Lan box, a blank is accepted as Lan 0. Click the Enter button to action your changes, and the Data Point on the page should after a second or so show the data from the controller.

You can move the Data Point to the desired place by holding the CTRL key down and then dragging the item with the mouse. Right mouse click on a point shows the properties menu.

All sorts of special effects are possible with Data Points. The style button takes you to the grey style status bar where you may choose from the full Windows range of fonts, sizes, ink and paper colours, outline boxing and transparent background effects. Advanced users may like to try *Doorway's*

Dynamic Image feature, where multi-state and animated images may be placed on the screen, further details in the Help file.

Digital data points have two conditions, which as a default is On and Off. Optional fields after the BMS data request controls the text and appearance of the two conditions.

example: **I1(\$,S)/Fault!!chimes/Normal/-12/11/** and assume the label is *Boiler*
 As the digital input status changes the data point text changes between **Boiler Fault** on a Red background and **Boiler Normal** on an Aqua background. The negative value means that the Red background will flash at about ½ Hz between Red and the paper colour of the Data Point, which should be in a contrasting colour, such as white. The **!!chimes** in the text make the datapoint play the chosen sound file periodically when that condition is active. Of course the use of all these special effects is optional.

Click the mouse on the ? button in the yellow edit box or press the help key F1 when editing a point, the Help display will open at the appropriate page.

Adding Jump Buttons

To jump from page to page you use Jump Buttons. You have up to 60 Jump Buttons on each page.

Select menu **Edit Add Jump Button** which places a Jump Button at the top left corner of the screen labelled Button 1. It then shows a blue status bar at the bottom of the screen. You can now change the button label to your choice, notice that the button sizes itself to fit the label. You can add spaces to your text to achieve the size you like. Buttons containing no text at all still show as a very small square box. The file name which the button will jump to is entered in the other box. The file selector permits selection of DAT, PIC, UPG, ZON TGD, MAP and DWC files for showing or other action on the *Doorway* page.

Jump Buttons can also do other things such as start another application, e.g. the word processor WINWORD.EXE or even show a file in its application e.g. EXPENSES.XLS which would start the Microsoft EXCEL spreadsheet and load the file EXPENSES.XLS into it.

A number other actions are also available from a Jump Button e.g. **RETURN* which causes a jump to the previous picture. Other commands include **ALARMS*, **CHANGE*, **CHART*, **CLICK*, **COMMS*, **DIAL*, **GENERIC*, **LIST*, **LOGBOOK*, **PLOT*, **REFRESH*, **SEND*, **SNAPSHOT*, **921*, **DIAL* etc. For details on the latest range and syntax of * commands open Doorway Help and search for ** Commands* or *Jump Button Syntax*.

Click the mouse on the ? button in the blue edit box or press the help key F1 when editing a Jump Button, the Help display will open at the appropriate page.

Changing editing modes

You can change from editing Data Points (yellow status line) to Jump Buttons (blue status line) by selecting the desired item by mouse clicking. The status line updates to show the properties of the item selected.

Mouse and Keyboard shortcuts

Many of *Doorway*'s features may be operated from the keyboard without using a mouse. While this is useful when using some portable PCs in the plant room, it is also often convenient for the experienced user editing *Doorway* pages even on a desktop PC.

To bring up the status line for a Data Point or Jump Button, hold down the Shift key and mouse click the item.

For Jump Buttons using the keyboard only press the TAB key to move between Jump Buttons. Press the Space bar to 'click' the Jump Button. To enter edit mode, hold Shift and press Space.

For Data Points using the keyboard only press Home, Page Up, Page Down and End keys to move between Data Points. The mouse pointer will move to indicate which Data Point is selected. Press the Insert key to "click" on a Data Point. To bring up the status line, hold Shift and press Insert.

To close the edit status bar using the keyboard press the ESC key.

The right mouse button is used to obtain properties of an item. When the right mouse button is clicked on the *Doorway* Page it shows a History list of the last few pages displayed. During page editing the right mouse button on a Data Point or Jump Button shows a menu with *Properties*, *Cut*, *Copy*, *Paste*, *Duplicate* and *Help* and other items when appropriate.

The Engineering mode is available from menu **Tools Engineering**. Users may find it convenient to use the familiar keyboard sequence CTRL O to get to the Engineering screen, and then CTRL O again to start controller configuration. Use CTRL M to select another controller from the Map. When complete use keys ALT F4 to return to the *Doorway* Page.

Other CTRL key shortcuts are indicated on the menus, e.g. CTRL S for a list of Sensors.

Change the picture title

The title on the caption bar at the top of the screen may be changed from the initial *Doorway* to something more informative by selecting menu **Edit Change Title** and typing in your choice. After using menu **File Convert from PIC format** to convert from the legacy PIC format pages are automatically titled *Doorway - filename.DAT*. Titles may be then changed as required.

Save the page to disk

If you have not saved the file already then choose menu **File Save As** and fill in the file save box in the normal way. This file is the DAT file which contains instructions about the layout and contents of the page. If the file has already been given a name then choose menu **File Save** to save under the existing name. Note that any associated picture file is not saved again unless it has been changed. The DAT file contains the folder path and filename of any picture.

Doorway IT Networking

Many users now have an IT network connecting their PC's to strategically located file servers. *Doorway* can use this network so that the BMS supervisor PC does not have to be connected physically to the BMS hardware connection.

The *Doorway IT Gateway* software is a separate program which is run on the PC connected to the BMS hardware. *Doorway* is then run on one or more distant PC's. All messages are now sent over the IT network, are picked up by the *IT Gateway* and sent to the BMS network through the appropriate RS232 port. Replies and alarms are similarly routed back to the PC's. *Doorway* may run on the same PC as the *IT Gateway*, it is just another client. Note that BMS alarms are received and archived by all PCs running *Doorway* communicating with this *IT Gateway*.

More than one PC workstation can simultaneously use the *Doorway IT Gateway*, although a practical limit at present of four users is suggested due to BMS congestion. All these users use the same NET port as the *Doorway IT Gateway*.

Additional *Doorway IT Gateways* may be run on other PC's connected to other BMS lans, or even the same lan to allow more simultaneous users. A PC running an *IT Gateway* may be located anywhere physically convenient for the BMS and IT networks.

Doorway IT Gateway network requirements

The *Doorway IT Gateway* uses the TCP/IP Internet Protocol on the IT Network.

Microsoft Windows includes reliable network client software. Third party network client software may also be suitable, call Doorway Systems for more information. Users of the *Doorway IT Gateway* with the original Windows 95 releases (95 and 95A) are recommended to upgrade to a more recent version of Windows.

Users who have more than one network protocol installed should note that *Doorway* only communicates over the TCP/IP protocol. You will need to ensure that all PC's running *Doorway* are set up with the TCP/IP protocol.

IT Network capacity

Doorway transfers only a few thousand bytes each second on page change, relaxing back to a typical 200 bytes per second on page idle. Compared with the 1 million bytes a second of 10Mbps Ethernet hardware capacity this is a negligible traffic load.

Connecting Doorway to the IT Network

In *Doorway* use menu **Tools-Communications** to see the networking options. Select option *IT-NET* to route the messages over your IT Network. Select option *Routed* and for example *Client 1* and choose OK. If the networking service is available the LAN adapter connects *Doorway* with your network. Initially all BMS messages are sent to Gateway 0, see *Doorway Help* to change this.

You may start the *Doorway IT Gateway* either before or after starting *Doorway*. Set the RS232 and COM port to suit the BMS hardware. Each *Gateway* has a unique number from 0 to 999. Select menu *Clients* and enable clients as required. BMS messages from client numbers which are not ticked will be ignored. We suggest up to six simultaneous users per BMS gateway otherwise BMS congestion makes response slow. If users 'park' on a non communicating page then this eases congestion for others. If all users show the same page and all data is being requested from just one BMS controller, the controller can get overloaded. To ease congestion choose the Tools Communications menu in *Doorway* and increase the *Communications Idle Time* from the standard 1.2 seconds, say to 1.5 seconds, repeat this on all users installations, and recheck. The idle time does not affect initial data collection, only the subsequent background refresh.

Network LogIn and passwords.

The LogIn process to your network actually controls access to files on the fileserver(s). *Doorway's* network communication is known as *peer to peer* which does not involve the file server. As a user does not need to LogIn to the file server for *Doorway* communications it is suggested that passwords in controllers and *Doorway* are used

Single User - Multi User Site licences

The *Doorway* single user licence is intended for one user at a time. The *Doorway* multi-user site licence provides multiple tokens for conventional installations for several simultaneous users. Users with IT networks may find it convenient to place all the *Doorway* data files on the file server so that all users have the same pages, and a Set-up option is provided for this.

A single user licence could enable multiple users if the licence token is installed to a file server, and several users simultaneously run from the single *Doorway* licence and program files. At present *Doorway* makes no checks on this situation, although it may in the future. We require users to upgrade to the modestly priced multi user license when this situation occurs.

Licence Agreement

1 Definitions

This is a legal agreement between you, the purchaser, and the authors, A D and J D Chamier. *Doorway*, "the Software" remains the property of the authors at all times.

2 Grant of Licence

The authors grant you the right to use one copy of the enclosed software program on a single computer. The program is in "use" on a computer when it is loaded into temporary memory (i.e. RAM) or installed into permanent memory (e.g. hard disk, CD-ROM, or other storage device) of that computer. A multi user licence copy may be installed on up to the number of computers notified to the purchaser by the authors.

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5 Other Restrictions

You may not rent or lease the software, but you may transfer your rights under this Licence Agreement on a permanent basis provided you transfer all copies of the software and all written materials, and the recipient agrees to the terms of this Agreement. Any transfer must include the most recent update and all prior versions of the software.

6 Term

The licence granted under this agreement is effective from the date on which the software is received by you. You may terminate this licence at any time upon one month's written notice to the authors. The authors may terminate this licence at any time without compensation if you fail to comply with any of the terms of this agreement. Within one month after the date of any termination, of the licence granted under this agreement, you will furnish the authors with a certificate certifying that through your best efforts, and to the best of your knowledge, the original and all copies, in whole or in part, in any form, of the software have been returned to the authors or destroyed.

7 Limitations of Warranty

Apart from any statutory obligations, because of the diversity of hardware, software, and conditions under which the software may be used, the authors cannot make any warranties either express or implied with respect to the software, its quality, performance, merchantability or fitness for any particular use. The software is licensed "as is" and with all faults. In no event will the authors be liable for direct, indirect, incidental or consequential damage resulting from any defect in the software even if the authors have or had been advised.

8 Governing Law

This agreement constitutes the entire agreement between the parties and supersedes any prior agreements. This agreement may only be changed by mutual written consent. This agreement shall be construed, interpreted, and governed by the laws of England.

Doorway Software Release Notes

Doorway Systems has an open systems policy. We publish details about every software release since the product was launched.

The software industry practice is moving strongly to on-line documentation, for cost and support reasons. The Windows Help system is always available and any topic can be printed if required. The Windows *Hypertext* links enables the showing of related topics with a mouse click.

In Doorway's main screen you can choose Help from the menu bar or press function key F1. Pressing key F1 is recommended because it will always open the relevant help topic for the current screen. Many screens in Doorway also have a button labelled *Help* or with just a ? symbol to open the relevant help topic. Doorway's Help text is comprehensively indexed so just press the *Search* button to locate a topic. To locate the software release note press the *Contents* button, then in the Contents page click on the text *Software Releases*.

The Doorway Help data is updated regularly, and updates are available free from Internet Web site:-
<http://www.doorway.co.uk>