

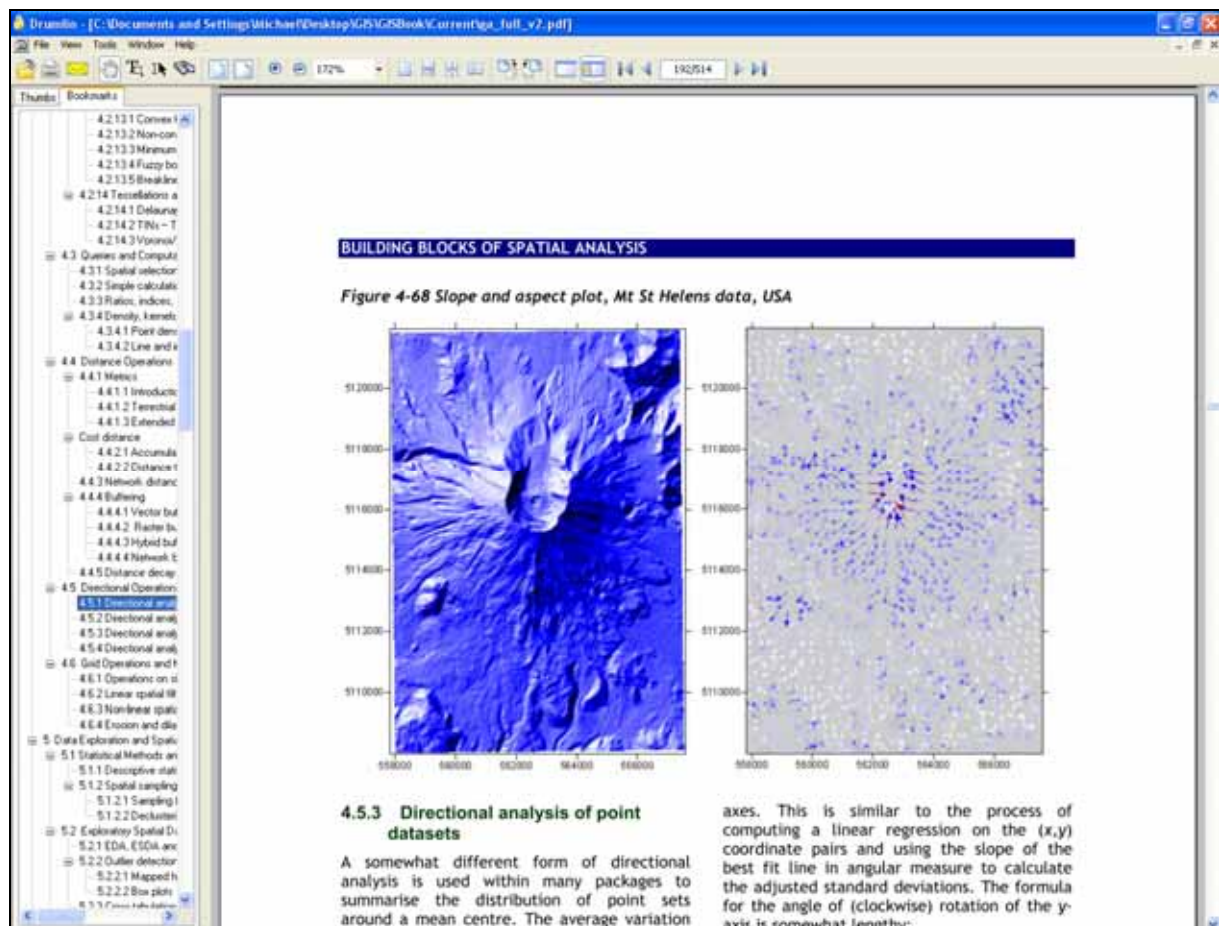


# The Drumlin PDF Reader/Publisher Software

Please read and/or print this document first

## Quick start

Simply use the Drumlin reader/publisher as you would your standard PDF reader. Use the Tools menu, Language option, to select your preferred language (e.g. French, German etc.). Explore the toolbar and menu items to see the various facilities provided - a full list of these functions is provided later in this document. Open any .PDF or secured .PDF (this will have the additional extension, .DRM) to view and print documents. The Drumlin reader supports document viewing, printing, searching, and navigation aids including Bookmarks and hyperlinks (if supported in the source PDF) and thumbnail views of pages (Thumbs), as illustrated below:

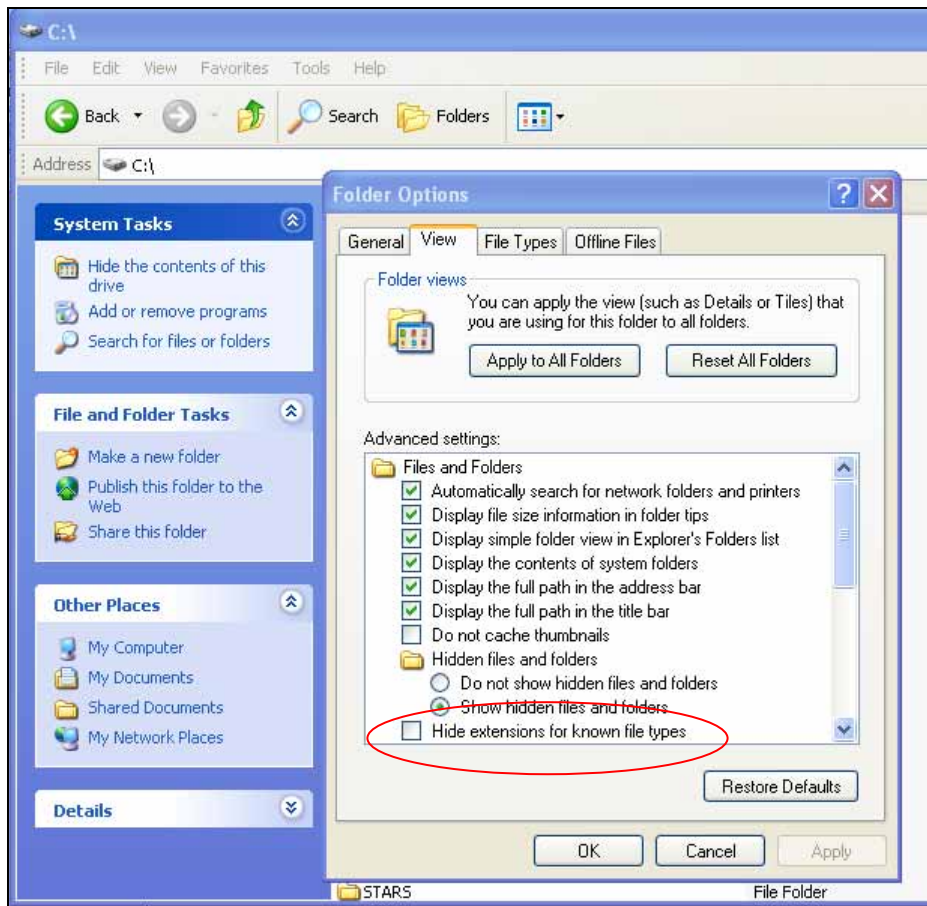


Navigation around the document is aided by support of zoom-in and zoom-out facilities, left and right mouse click operations, and wheel mouse and keyboard (PgUp/PgDn and arrow keys) support. For PDF generation we recommend use of Adobe's commercial PDF creation tools.

To view fully secured PDFs (with .DRMX extensions) you will need to use the File menu, Authorize option. To create secured PDFs use the File menu,

Publish option. Some publishing options required a license version of the software, as detailed on the [Pricing and Ordering](#) page of the web site.

If you cannot see file extensions such as .doc and .drmx when in the Windows file explorer program, open any file folder (e.g. My Documents), select the Windows file explorer menu item Tools at the top of the window, and choose Folder Options... This will show a tabbed form. Select the View tab and see if the item "Hide extensions for known file types" is ticked. If it is, then un-tick this box and you will be able to view full file extensions in all your folders.



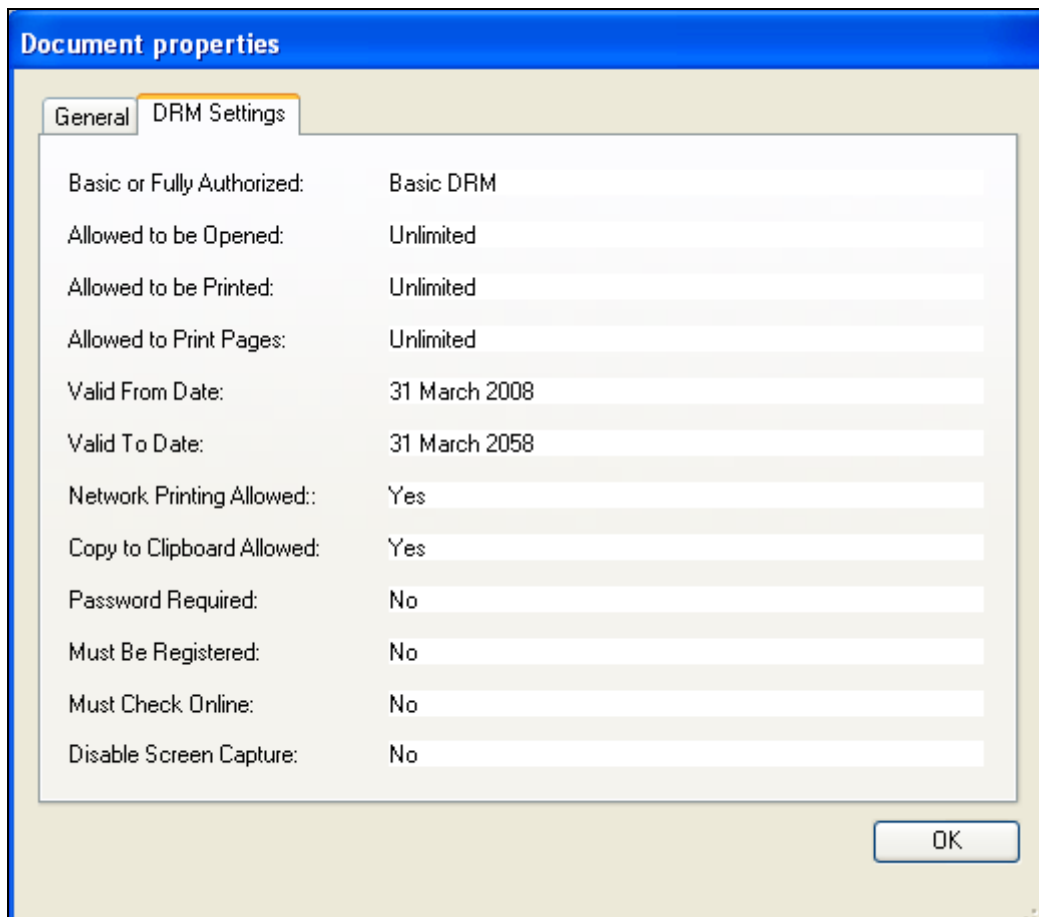
In addition to PDF files, the Drumlin software now also handles a wide range of image file formats, including: GIF, TIF, PNG, JPG and BMP files - all may be opened file the File menu, Open dialog, and then viewed and printed, as required. Multimedia files cannot be embedded and played, but may be accessed via links which could be a screen shot with a '[click here to play](#)' icon and/or text (try our link).

The use of the Windows clipboard and screen capture programs is restricted for some documents - please see the Screen Capture section, below, for more details. For further information please read the remaining sections of this document, and if necessary, please look at the [FAQs](#) and [Help](#) pages on our web site.

## Using Drumlin

The Drumlin software is designed to open and display (view) and optionally print standard PDF files and special PDF files that have been converted by the document publisher/owner to either the secure .DRM or .DRMX formats.

If you register your copy of the Drumlin software you can publish secure PDF documents yourself. Try looking at the properties of this document, `welcome.drm` - use the File menu, Properties option, DRM settings tab and you will see the following information (or similar):



As soon as you have installed the Drumlin PDF software this "Welcome" document is displayed (<drumlin directory>\welcome.drm). You can re-open this document via the File or Help menus at any time. The Help menu also provides a link to the Online Help information. You are now ready to use the Drumlin software to read and print secured PDF documents. This process can be carried out using the basic (free) Drumlin software or with a range of software upgrades that can be purchased, as described on our [Pricing and ordering](#) web page and [below](#).

The .DRM and .DRMX formats are strongly encrypted versions of PDFs with built-in permissioning and digital rights management. Essentially this means that when you receive or download a .DRM or .DRMX document it will include controls that determine whether you can simply view the document (possibly for a certain period or number of occasions), or whether you can

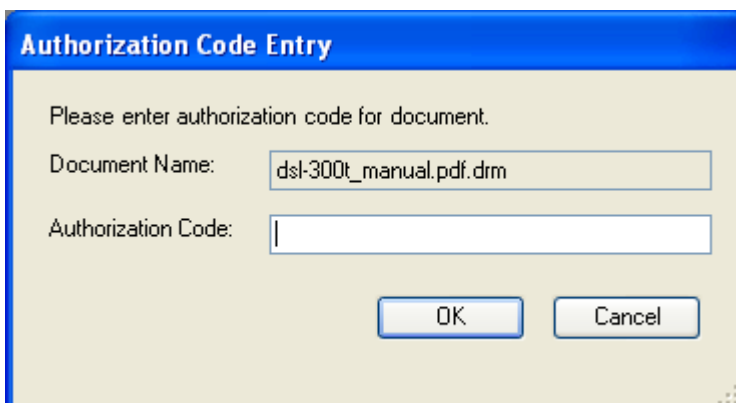
also print it, copy it etc. The publisher/owner sets these attributes. Details of how to do this are provided later in this document. To view a standard .PDF file or a .DRM file simply open the file with the Drumlin program.

## Registration

In order to view some protected documents, and if you wish to become a publisher of such documents, your copy of the Drumlin reader must be registered. This requires a connection to the Internet, so please ensure a connection is available before you start. Then, go to the Help menu, REGISTER option (if you have not already registered your software) to register your copy of the Drumlin software. Your registration details will be emailed to you, and to enable continued use of the software you must respond to the email otherwise your software will expire after a short period. The licensing terms can be viewed at any time via the Help menu, About option and on the website. To view a fully secured .DRM document on another computer a separate copy of the Drumlin reader must be installed on that computer (e.g. a laptop), with its own registration details (a different username must be specified). If the .DRM file has been generated by authorizing a .DRMX file or is 'User List restricted' it will not be readable on another computer. You will need to copy the .DRMX file to the computer in question and obtain a separate authorization key from the owner/publisher.

## Authorization of DRMX files

If you have purchased or been supplied with a Drumlin .DRMX file you must first obtain an authorization code from the owner/publisher to authorize this so you have a document you can read. This is carried out using the Drumlin program's File menu, Authorize... option to convert this file to a .DRM file, which is then readable on your PC (this file cannot be authorized again without a new key from the publisher, nor can it be copied to and viewed on another computer once authorized). You must be connected to the Internet when authorizing files. When the Authorization Code Entry form is displayed enter the Code you have been supplied with - you can copy this Code to the Copy buffer and then Paste it using your mouse button (right click) or Ctrl+v into the field shown. If all is OK the file will be unlocked and saved, and then opened for you to view:



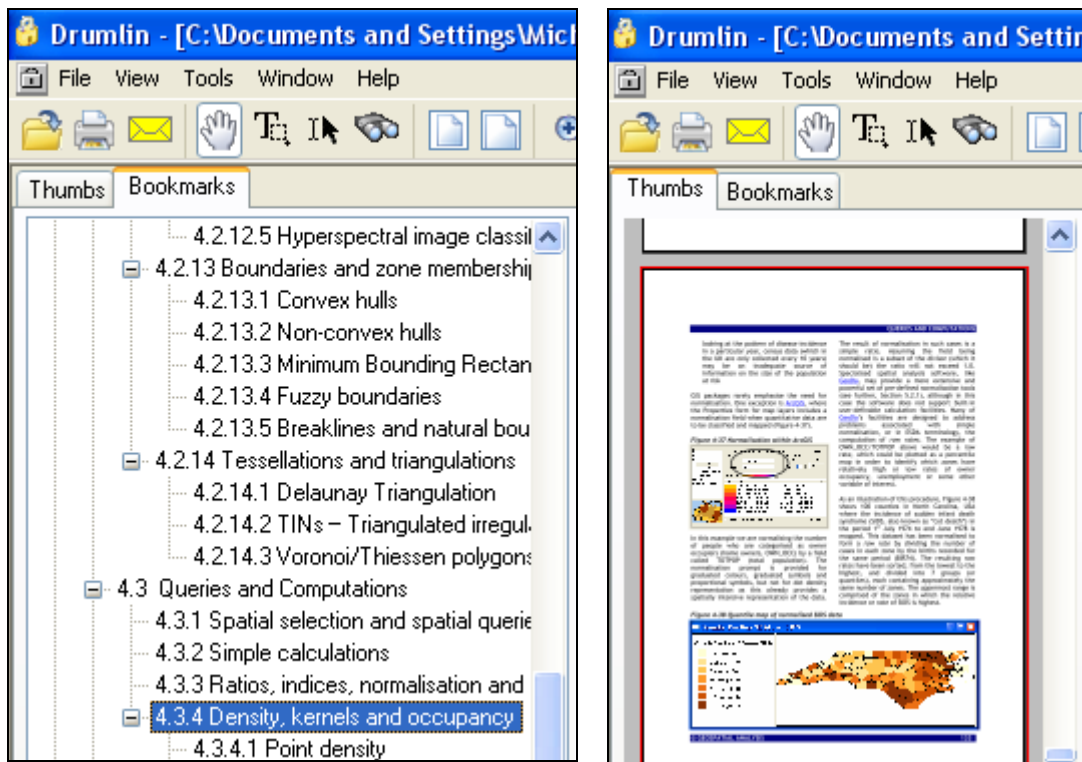
The image shows a dialog box titled "Authorization Code Entry". It has a blue title bar and a light beige background. The text inside reads: "Please enter authorization code for document." Below this, there are two input fields. The first is labeled "Document Name:" and contains the text "dsl-300t\_manual.pdf.drm". The second is labeled "Authorization Code:" and is currently empty. At the bottom of the dialog, there are two buttons: "OK" and "Cancel".

It may also be a requirement (set by the owner/publisher) that you have an online connection to the service when you wish to read the document.

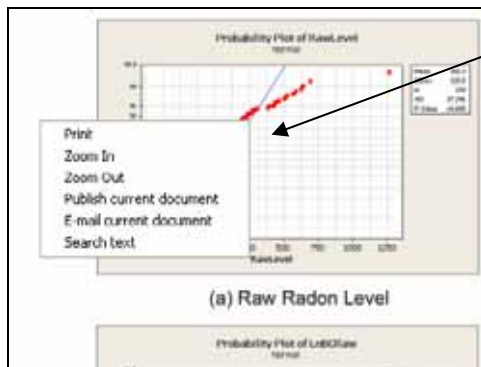
Please keep a copy of your authorization codes in case of any problems with your computer.

## Navigation and document display

Drumlin includes several facilities to aid fast navigation around PDF files. These include the various view and search facilities described above, together with support for internal and external hypertext jumps/hyperlinks, if the document author has generated such links in the source PDF. If a PDF includes a document structure section (e.g. generated from a document Contents table) this will automatically be displayed in a re-sizable window on the left of the viewing screen, as shown below. In addition, whether or not thumbnail images of the document have been generated in the source PDF, these are provided via the Thumbs tab of the Navigation window.



Tools are also provided to enable you to zoom in or out at any point - these are accessible via the toolbar icons, View menu and by right mouse (or "in context") clicking on any page in the document. Other basic functions are also provided via the in-context right mouse button click:



When copying to clipboard is permitted and the area or line text selection toolbar icons are pressed, the in-context menu includes select and copy facilities.

## Toolbar and menu facilities

The standard Drumlin reader toolbar is shown below. The numbers below the toolbar refer to the descriptions that follow in the table provided. Many of the functions displayed are also provided via menu items (additional facilities may be provided via the File, View and other menus, depending on the version and setup of the Drumlin software you have installed):



Item	Description
1	Open an existing file (File Open) - a range of file types are supported (.pdf, .drm, etc.)
2	Print - if enabled. Printing may be limited to a certain number of copies or pages (File Print)
3	Email a Drumlin readable file: attaches file to a New Mail item using your email client
4	Drag: pages may be dragged by holding the left mouse button down or using the mouse wheel
5	Select text by area: if enabled
6	Select text by line: if enabled
7	Search: free text search of entire document, single words or strings (View Text search)
8	Fit page
9	Fit page width
10	Zoom in: fixed zoom in (View Zoom in) - also provided via right mouse-button click
11	Zoom out: fixed zoom out (View Zoom out) - also provided via right mouse-button click
11a	Zoom factor (select from drop down or type in value required)
12	View single pages
13	View continuous single pages
14	View multiple continuous pages
15	View facing pages
16	Rotate clockwise
17	Rotate counterclockwise
18	View/hide Full Screen mode (press Esc or use the View menu, full screen option to exit mode)
19	View/hide Sidebar showing thumbnails and bookmarks
20	Go to first page (View First page)
21	Go to first page (View Previous page)
22	Shows current page/pages: type in box and press Enter key to go to a page (View Go to page)
23	Go to first page (View Next page)
24	Go to last page (View Last page)

A wide range of image file formats may be opened using Drumlin. Use the File menu, Open option, and select Image files as the type to open. Image

file types supported include: GIF, TIF, PNG, JPG and BMP files. Operations such as view, rotate and printing may all be carried out.

You can select Drumlin as your default PDF reader via the Tools menu (not available for Vista users). To unset this subsequently, use the Windows File Explorer, select a PDF file and then right click with your mouse and select Open With... to pick the program you require. Then use the Choose Program... option to pick the program required and tick the "Always open with this program" option. This will re-assign PDFs to the selected program. You may need to log out as a user and log back in again for this to take effect. If you have any problems with this facility please refer to the online FAQ page for more information.

## Language selection

The Drumlin software is now multi-language enabled. English, German and French language files plus a number of others are provided with the initial installation. Select your preferred language via the Tools menu, Language option. Additional languages may be downloaded via the Tools menu, Download language files option.

## Clipboard and screen capture operations

Drumlin automatically restricts the use of the Windows clipboard, print screen and screen capture programs for certain documents. The restrictions apply to encrypted Drumlin documents (which have a .drm extension) that do not have the option "enable clipboard" selected, i.e. by default Drumlin documents have the clipboard disabled. When this type of document is opened the Drumlin reader disables the Windows clipboard and the Windows Print Screen facilities. If, in addition, the Disable Screen Capture option has been selected then Drumlin also checks for the existence of screen capture programs that may be running (actively, or passively in the background). If Drumlin considers that such a program might be running it issues a warning message asking you to close the program in question before continuing. To close such programs, select the program (if it is open and running) and use its Exit option to close it. Some capture programs install an icon on the Windows toolbar and may not exit when the program is closed (see example, below). If this is the case, then select the icon in question, right click on it, and select Exit to close the program fully.



If Drumlin still detects a running capture program, and you have not been able to exit these in the way described, check the documentation for the program concerned to see how it should be closed. If all else fails you can run the Task Manager (e.g. press Alt+Ctrl+Del to start the task manager in most cases) and delete the process identified in the Drumlin message - make sure you have selected the correct process first! Users should contact Drumlin ([info@drumlinsecurity.co.uk](mailto:info@drumlinsecurity.co.uk)) if they wish to request temporary enabling of screen capture, having provided a full explanation of why they require this facility.

## Publishing facilities

The Drumlin software may be used to convert your own PDF files to the secured .DRM and .DRMX formats, for subsequent distribution and optional sale/rental of the copies provided. PDF files can be created using PDF Writer/Printer products available from many suppliers - for more details please see our web site. To use the Drumlin publishing facility you must first register your copy of the Drumlin software. Then select the menu option, File and Publish... to view the publishing screen:

The screenshot shows the 'Publish New Document' dialog box with several sections and callouts:

- Document Info:** Includes fields for Document (with a selection button), Description, Version (1.0), and ISBN. A callout points to the document selection button: "Select a PDF file or set of files to use and provide description, version and ISBN information (if required) for the Drumlin digital rights management (DRM) system".
- Permissions:** Includes Start and End date pickers (13/06/2008 and 13/06/2058), View#, Print#, and Print Pages# (all set to -1). There are checkboxes for "Must Be Online", "Must Be Registered", "Network printing enabled" (checked), "Enable clipboard", and "Disable screen capture". Callouts explain: "Keep previous versions creates a new record in our database if the document has previously been published" (pointing to the "Keep Previous Versions" checkbox) and "Specify permissions (controls applied to the published document). -1 means 'unlimited' for printing and viewing. Password control is Drumlin specific and is separate from any password applied in the original PDF." (pointing to the permission checkboxes).
- Document type:** Includes radio buttons for "Generate basic DRM file" (selected) and "Generate fully secured DRMx file". A callout explains: "New User list and application-specific watermarking facilities. Enabled with Pro and Pro+ Drumlin licenses" (pointing to the "User List" button).
- Watermark:** Includes a "Watermark" button and an "Include watermark" checkbox. A callout explains: "Progress bar updates after OK pressed - data is transferred to the central Drumlin DRM service. The original .PDF file is encrypted and then saved with an extra .DRM or .DRMX extension on your PC" (pointing to the progress bar).
- Buttons:** Includes "Batch publish", "Save settings", "OK", and "Cancel". A callout explains: "Batch publishing function - available with Pro+ edition. Enables large volumes of files to be automatically generated as .drm or .drmx files" (pointing to the "Batch publish" button).

**Additional callout at the bottom left:** "Select document type to generate. A basic DRM file is created locally and will not require an authorization code. Anyone can read it, but you can set some permissions (e.g. start/end dates). If User Lists are enabled and used, basic DRMs can be restricted to be only viewable by the user or users in the list. This is ideal for pre-registered users (e.g. intra-corporate applications). Fully secured DRMx files are very secure and, once authorized, produce a .drm file on the end user's PC that can only be used on that computer and cannot be copied or viewed elsewhere".

To generate a basic secured document, select a PDF you have already saved or created on your PC, using the document selection button shown above (if you select a file type other than pdf you may be able to 'publish' it by the result will not be readable). Enter an optional Description, ISBN and Version

number if you wish. Then select the "Generate basic DRM file" selector option, check that you have an online connection and press the OK button - this will create a .DRM file on your computer in the directory you have selected, with the same name but with a .DRM extension. You can now open and view this file with your Drumlin reader. Note that you cannot print it, and once you have opened and closed it the specified number of times, it can no longer be viewed - indeed, even if you try re-creating it or copying it from elsewhere you will find that it cannot be opened. *To create basic DRM files or a fully secured DRM file without the view and print restrictions you will need to purchase a Standard, Pro or Pro+ edition license (as described later in this document and on our [web page](#)).*

To generate a fully secured document with additional controls, as per the Permissions settings shown on the screen above, you can select the "Generate fully secured DRM file" option, and then specify the Permission options and dates you require: note that -1 in Count fields means unlimited (can only be set if an appropriate license has been purchased), 0 means "none" and a number like "5" means "limited to 5 times". If you select the "Must be online" option the user must have an online connection to the Internet when they try and open the document, but not throughout the time they are using it. This option checks the central server to see that the document details are valid, including the date range against the server's own clock, and will prevent access if necessary even if the user has altered their own computer's clock. Then make sure you are online and press OK as before. This time a document will be created, with the same name and directory as before, but with the extension .DRMX added - this is a locked .DRM file that can only be read if it is authorized with a special code (see Authorization codes, below).

You can use the File menu, Properties option to see the settings made for this document. Documents like this can be generated and placed on your web site or emailed to end users, and no authorization process is required for them to view the document. It can be copied and downloaded any number of times without charge or other constraint, but can only be read if the user installs a copy of the free Drumlin software.

Drumlin includes three optional extra facilities for secure PDF publishing. Each of these is described in more detail later in this document. The first two are the User List and Define Watermark facilities illustrated on the screen shot provided above, and also shown below. The buttons that access these facilities are only enabled if the appropriate software license type has been ordered (they are not visible otherwise). Having placed the order to upgrade your Drumlin license your user settings on the Drumlin DRM server are updated by our team and you will be advised by email of the changes that have been enabled. To activate your extra facilities you will need to use the Help menu, Updates option which will check our server and update your local software settings. The appropriate buttons shown will then be accessible.

The screenshot shows a dialog box with two main sections: 'Document type:' and 'Watermark:'. In the 'Document type:' section, there are two radio buttons: 'Generate basic DRM file' (which is selected) and 'Generate fully secured DRM file'. Below these is a 'User List' button. In the 'Watermark:' section, there is a 'Watermark' text box and an 'Include watermark' checkbox. At the bottom of the dialog, there are four buttons: 'Batch Publish', 'Save settings', 'OK', and 'Cancel'. A horizontal scrollbar is visible between the two main sections.

The third option illustrated is the Batch Publish button. As with the previous two options, this button is only visible for appropriately licensed users (Drumlin Pro+ license). It enables selection and secure publishing of PDF files simply by specifying a parent directory. The software then generates a directory tree of all the PDF files it finds in the parent directory and subdirectories, and enables the user to exclude any files they do not wish to publish. The privilege settings used for each document (print, view, date and other controls) are taken from the settings provided on the underlying Publish New Document form. This facility is ideal for customers publishing 100s or 1000s of documents at a time.

## Password protection

Most PDF files do not have an OPEN password specified. If this has been specified during the PDF creation process (e.g. using Acrobat Professional edition) then Drumlin will prompt for this password. However, Drumlin also provides the opportunity to specify a password when a .DRM or .DRMX file is created. This is case sensitive, so "Secret" is different from "secret", but can be any length or set of characters. This password is embedded in the strongly encrypted Drumlin file and the file cannot be opened without specifying the correct password. If bulk generation of files is used (see below) and a password is specified, it will apply to each file generated.

## Multiple and Bulk generation of secured .DRM and .DRMX files

When you use the Select PDF file button [...] on the "Publish New Document" form above, you can choose multiple pdf files by holding down the Ctrl key or the SHIFT key, as with other Windows applications. You can then set the attributes you require to be applied to all of these files (including a password and or user list information), and when you press the OK button it will publish each document in your list, in turn, and will provide a list of files generated at the end of the process. Each file will have the same name as the source document but with the extension, .DRM or .DRMX, as appropriate.

The Batch Publish option extends the above facility by enabling selection and secure publishing of PDF files simply by specifying a parent directory. The software then generates a directory tree of all the PDF files it finds in the parent directory and subdirectories (with their file sizes), and enables the user to exclude any files they do not wish to publish. The privilege

settings used for each document (print, view, date and other controls) are taken from the settings provided on the underlying Publish New Document form. A Drumlin Pro+ license is required in order to be able to use this option. Very large files (e.g. those well in excess of 100Mbytes) are identified in the list in a different colour as it is recommended that such files should be reduced in size (e.g. using Adobe Acrobat Pro) or split before proceeding. Batch processing generates a log file for future reference and if an error occurs the log file is displayed so that the problem can be identified (e.g. a file that may need splitting). Batch processing continues unless an error encountered prevents the process from running.

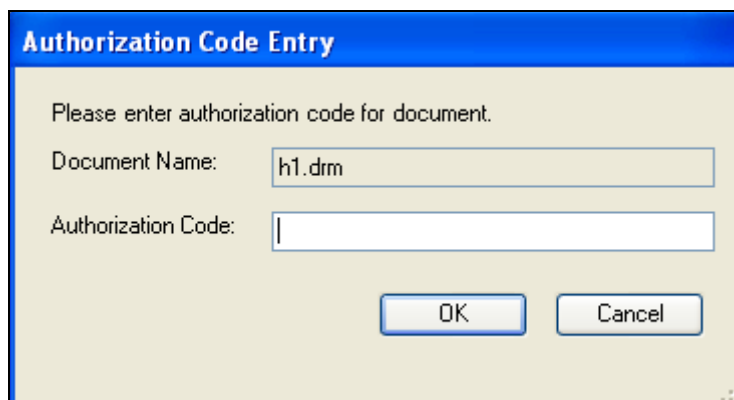
## File naming

It is strongly recommended that you use different file names for your various source documents and document versions. For example, if you wish to provide a sample version of document "Newsletter.pdf" then name this source file "Newsletter\_Sample.pdf" first, and then create the locally generated .DRM version of this file (e.g. "Newsletter\_Sample.drm"), setting any additional permissions you require. Likewise, if you are expecting to issue several versions of a document or newsletter then include a version or date-related information in the pdf filename, e.g. "Newsletter\_Jan08.pdf" or "MyBook\_V1.pdf". When you create a single DRM or DRMx file using the publishing facility you will be prompted to provide a filename - with multiple files (bulk publishing) the filenames are defaulted and must be altered subsequently if you wish to use different names.

Files that are output by Drumlin have the extensions .DRM or .DRMX - you can distribute such files in any manner desired, via email, on CD or via web access. If you cannot see file extensions in your Windows file manager, then use this program's Tools menu, Folder options... setting to change the default View settings so the full extensions can be seen.

## Authorization codes

A free test/trial key will be provided to you on the first few occasions when you publish a DRMx document - save this to a disk file. NOTE: this code is also automatically copied into your Windows Paste buffer, ready for pasting into the code field when requested (see further, below).



The image shows a dialog box titled "Authorization Code Entry". The dialog contains the following elements:

- Title bar: "Authorization Code Entry"
- Text: "Please enter authorization code for document."
- Field "Document Name:" with the value "h1.drm"
- Field "Authorization Code:" which is currently empty
- Buttons: "OK" and "Cancel"

You can then check that the .DRMX file has been correctly generated by using the File menu, Authorize... option to create a .DRM version that you

can then view. You are asked which document (.DRMX file) you wish to Authorize, and where you would like to save it, and then the Code Entry form is displayed. Enter your test key - you can copy it to the Copy buffer and then Paste it using your mouse button (right click) or Ctrl+v into the field shown. If all is OK the file will be unlocked and saved, and then opened for you to view. When you publish subsequent DRM files you will find that, after a few test publications, you do not get a free test key provided. If you wish this setting to be altered, allowing test keys for other documents, please contact us by email: [sales@drumlinsecurity.co.uk](mailto:sales@drumlinsecurity.co.uk). Likewise, it is possible for a single authorization code to be used multiple times, if so requested - for example, to allow a customer to have two copies of a secured document or to have a demonstration document that must be authorized but for which you are happy for any number of people to access. Again, email us if you require this option. Finally, it is also possible for codes to be generated that are specific to a single registered individual (assuming they have already installed and registered a copy of the Drumlin software). Then you can distribute your .DRMX file in any way you wish (e.g. via a web site, CD, via email etc.) without fear of it being copied or decrypted. If an end user/customer wishes to view the document they must apply to you for an authorization code (or codes if you decide to offer them the option of having multiple copies of the document on different computers). Once authorized the end user can only view and/or print the document on their computer, with the permissions you have specified, and the authorization code cannot be re-used by anyone else.

## Publishing locally generated secured files without view/print restrictions

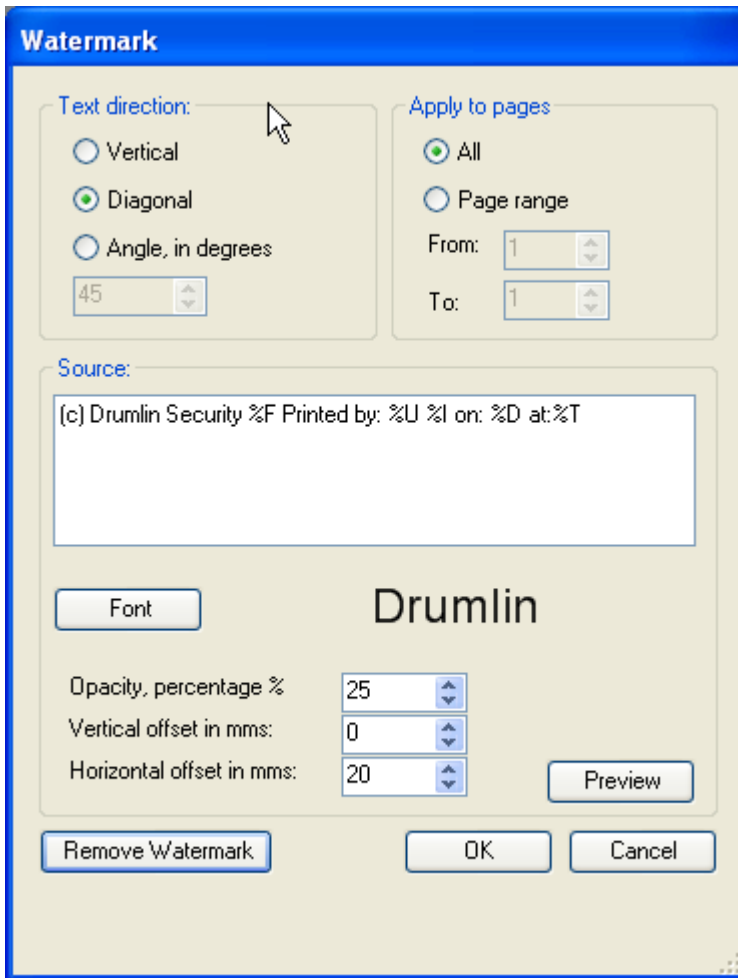
When you register your copy of the Drumlin Reader a special 'user record' is stored in our database. By default this permits you to create locally generated .DRM files, singly or in bulk, but with the restriction that a recipient cannot view the document more than 5 times and they cannot print it. However, if you wish to create such documents without these restrictions you will need to request this facility. There is a charge for enabling unrestricted generation of locally DRM files for a single user (upgrade to a Standard, Pro or Pro+ license), as described [below](#).

## Application-specific Watermarking

This is a facility available to Pro and Pro+ edition licensees. Drumlin supports conventional PDF watermarking as a standard feature, but this only provides limited security for the publisher. Application-specific watermarking ensures that printed documents include a watermark that identifies who printed the document and when, providing traceability and accountability. The screen shot below illustrates the facilities available. Watermarks are placed on the diagonal by default, based on an origin that is the center of the page. Field data can be included, as shown, with the following interpretations:

%F	filename
%M	machine name
%C	document ID
%U	username
%I	userID
%D	date

%T time



Typically you would create a standard watermark and apply it to any documents you wish by ticking the *Include Watermark* tick box on the Publish New Document form. Application-specific watermarking is applied to printed documents only, and can be added or removed as required. The Preview option provides a visual indication of the positioning, size and font on a blank page using the settings of the current default printer.

## Licensing and service notes

The basic Drumlin Reader/Publisher software is provide free of charge. Upgrades to this basic software can be purchased, as described below and in the Software matrix diagram. Secured documents (DRM and DRMx files) may be distributed without charge.

- **Drumlin Standard Edition:** Publish unlimited viewings/printings basic DRM files. Includes 100 free quota units plus 100 free authorization codes
- **Drumlin Pro Edition:** as per Standard Edition, plus user-specific basic DRM files and application-specific watermarked printing. Includes 100 free quota units plus 100 free authorization codes
- **Drumlin Pro Plus Edition:** as per Pro Edition, plus bulk publishing option (select main directory and all pdf files within this

directory/subdirectory can be published). Includes 250 free quota units plus 250 free authorization codes

	<b>Drumlin software: Publishing facilities</b>				
<b>License Edition</b>	<b>Restricted DRMs &amp; Unrestricted DRMxs</b>	<b>Unrestricted view DRMs</b>	<b>User specific DRMs</b>	<b>Application specific watermarking</b>	<b>Directory based bulk publishing</b>
<b>Free</b>	✓	✗	✗	✗	✗
<b>Standard</b>	✓	✓	✗	✗	✗
<b>Professional</b>	✓	✓	✓	✓	✗
<b>Professional +</b>	✓	✓	✓	✓	✓

Basic secured documents (DRM) files do not require authorization in order to open and/or print them. Each DRM document published can be supplied to any number of individuals without additional cost. If you wish to publish such files without limits to the number of times they can be viewed or to specify that they can only be viewed by selected pre-registered Drumlin users, a software license must be purchased. All license fees include an initial quota specifying how many documents can be published. Additional quota units can be purchased separately if required.

Fully secured (DRMX) files require an authorization code to enable them for reading/printing (they are converted to DRM files and locked to the user's PC settings). This is the strongest security we provide and does not require the user to have pre-registered with the Drumlin service. Publishers are required to order a Drumlin Pro or Pro Plus (Pro+) Edition license to use this facility and to take advantage of the extra functionality and free codes provided with these versions of the software. Additional DRMX Authorization codes can be purchased in blocks of 10, 100, 1000 or more, as required.

Licensing and service notes: Please go to: [www.drumlinsecurity.co.uk](http://www.drumlinsecurity.co.uk) for details of the latest software licensing and service availability details. A software license agreement is issued as part of each installation, whether end user or publisher. DRM service provision for publishing and authorization is typically very high (>98%) but is not guaranteed to be always available 24/7/365.

### Obtaining additional authorization codes

Authorization codes are provided on request by Drumlin security, for the documents and in the quantities requested. Use the [Pricing and Ordering](#) link on the website to place your order and make payment. Then email [sales@drumlinsecurity.co.uk](mailto:sales@drumlinsecurity.co.uk) specifying the document or documents for which you require authorization codes (in the case of DRMX files). For basic DRM files you do not have to specify the filenames, only that you wish to

have the ability to generate unrestricted basic DRMs and the number of such files you wish to create (your quota).

For DRMX files your authorization codes will then be sent to you as a text list by email. For example:

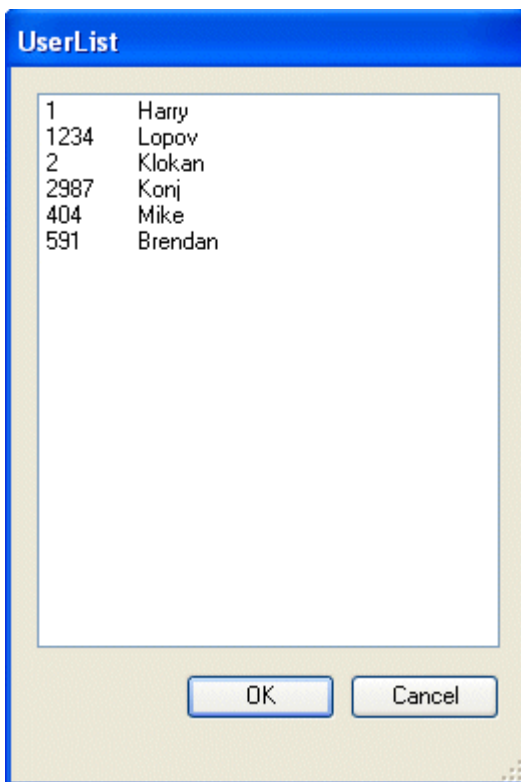
Code: ovJOaalUVxDiQHPXcQaG

On request these codes can be sent to you as an email attachment in the form of a secure .DRMX file or password-protected .DRM file.

## User Lists

This is a facility available to Pro and Pro+ edition licensees. It extends the functionality of basic DRM files so that instead of being readable by anyone with the free Drumlin Reader software, they can only be read by a list of pre-registered Drumlin users. Once the function is enabled, a simple file called `userlist.txt` must be created and placed in your Drumlin program directory (i.e. where `drumlin.exe` is stored). Each entry should be of the form:

`<userID>tab character<optional helpful text>`



Once a file of this type is created, start Drumlin, press the User List button, and a list like that shown above is then displayed. You can then select from this list in the normal manner (single or multiple entries, holding down the Ctrl or Shift keys for multiple selections, as required).

Having selected the users you wish to be able to read the document you plan to publish, you choose your other document settings and publish the file.

The DRM that is created can be sent to anyone, but will only be readable that those users with a Drumlin userID that matches an IDs in the list. The users must, of course, be pre-registered with Drumlin, and the userIDs provided in advance to the person publishing the document. The userID is the numerical last part of the Registration information, provided in the registration email and viewable via the Help menu, About form. Publishers wishing to use this facility are advised to include themselves in the list in order to be able to check the file is OK, and to be careful to include all the userIDs they require - if users are to be added or deleted, a new file should be created (at least, at present this is the case!). We suggest use of file expiry in combination with the facility, for extra security.

## Keeping track of your publishing

To help you keep track of the files you have published and their permission settings, a log file called PublishingHistory.csv is created and updated in your application data directory:

C:\Documents and Settings\[<username>](#)\Application Data\DrumlinSecurity\Drumlin

You can open this file with Excel or a text file editor (e.g. Notepad) and see each event with the various settings field names included in the first row:

Publ.Date,DocID,File,Description,Name,Version,ISBN,Type,StartDate,ExpiryDate,Print#,View #,Pages#,KeepVer,MustBeOnline,MustBeRegistered,AllowNetworkPrinting

## Security notes

The details of the Drumlin software security framework, including both the software security and the service related security facilities, are not, of course, published. Publishers may ask us questions regarding to the security facilities available which we will endeavour to answer, and there are many publishing features and controls that are incorporated into the system but which are not apparent or visible. Ultimately it is the responsibility of the publisher to satisfy themselves, via thorough testing, that the solution provided meets their requirements.

## Other facilities and services

The Drumlin menu provides a number of other facilities, notably the Help menu, which includes options to view details of your registration status, and the automatic Update... facility (not available for Vista users). The latter checks the central Drumlin server to see if a new version of the program is available, and if so automatically updates your computer with this version. Please wait while the update takes place. The update process is fully automatic and will close, update and then re-open your copy of the Drumlin software.

### Turnkey PDF publishing service

We can providing a turnkey service, where you supply us with your PDF or PDF.DRMX files together with the price you want to sell them at, descriptions and cover images (or a ready created web page promoting your publications). We then add the details of how to order the publications (download version) and the e-commerce facility to accept payment. When a customer orders your publication we supply the authorization code directly to them, so there is no need for you to obtain and distribute the codes. Automated code delivery is possible if required. Payment of your royalties are made quarterly in arrears unless otherwise agreed. A simple contract provides the terms and conditions for this arrangement. Please note: you will be responsible for the promotion of your publication; and you must confirm that you are the owner of the copyright to the publications you wish us to handle on your behalf.

### Tailored and professional services

The Drumlin central DRM facility and the Drumlin Reader/Publisher software incorporate many additional facilities. These include: central storage of encrypted documents; secure (doubly encrypted) distribution of centrally stored documents; user-specific drmx document authorization; usage tracking and analysis - tailored reports provided at regular intervals; an administrative client, for managing files and users; the ability to operate a private (user-group specific) service based on designate private servers; reporting (from the Drumlin SQLServer database); Drumlin client software tailoring (e.g. functionality and/or white labelling). Further details of these, and aspects of the security model, are available on request.

### Reader restrictions

The Drumlin PDF Reader/Publisher provides display and print support for most of the features of all current versions of PDF formats. Watermarks (foreground and background) and forms may be viewed, but form field processing is not supported, nor are embedded or attached files or Javascript. Keyword search support is provided. Copying of section of text may or may not be permitted, depending on the settings applied.

Currently single file secure publishing is limited to c.150Mbytes per file. Publishers with larger files are advised to use the standard Adobe Acrobat 'reduce file size' options if they have larger files than this, or to split these very large files into smaller sections using either Adobe Acrobat or one of

the widely available PDF Splitter programs (e.g. <http://www.a-pdf.com/split/>).

## Technical support

Please go to: [www.drumlinsecurity.co.uk](http://www.drumlinsecurity.co.uk) - there you will find pages providing [Help](#) and [Frequently Asked Questions](#) (FAQs). You can also email our technical support via the Contact menu option on the website.