

Zoom V7 Configuration File Specification

Zoom V7 Search Engine's configuration file format specification

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REVISION HISTORY

Revision	Revision History	Author	Date
V7.0 Ed 1.0	New release for V7 major update. Many new features added.	RL	22/Sep/2014
V6.0 Ed 1.0	New release for V6.0 major update. Many new features added including: custom meta fields, images for recommended links, UTF-16 BOM support, ASP.NET platform, and more.	RL	19/Feb/2009
V6.0 Ed 1.1	Added XMLXSLTURL, updated OUTPUT_OS and URL types.	RL	30/Jul/2009

1.0 INTRODUCTION

Wrensoft Web Development produces the [Zoom Search Engine software package](http://www.wrensoft.com/zoom), which allows users to add customizable and comprehensive search functionality to their website and CDs. More information on Zoom is available at <http://www.wrensoft.com/zoom>

This document specifies its configuration file format that will enable users to read or write Zoom configuration files. It also touches on how this information could be useful to a software developer who wishes to use Zoom as a tool to facilitate their applications. Each field in the configuration file is described in Chapter 5 of this document. It is easier to understand the meaning of the fields if you were to open the configuration file with a text editor and view the contents of the file while reading this document at the same time.

1.1 Scope of this Specification

This document only covers the 32-bit and 64-bit version of Zoom v7.x and later. Although many of the fields are similar to those of Zoom v6.x, this is not considered a complete specification of a configuration file used in Zoom v6.x and below.

2.0 ZOOM CONFIGURATION FILE OVERVIEW

The settings of the indexer, including the starting directory, URL, output directory, and configuration settings can be saved as a configuration file. This provides you with the convenience of simply loading the configuration file the next time you wish to re-index your website. If you develop multiple websites, you can also keep a separate configuration file for each website and load up the one you wish to re-index. Simply double clicking the zoom configuration file from Explorer will automatically start up Zoom with the file loaded.

2.1 Loading Zoom Configuration File from the Command Line

By default, the application loads the 'zoom.zcfg' configuration file in its current directory, but this can be changed by an optional command line parameters:

```
ZoomIndexer <config-file>
```

Options:

`<config-file>` The configuration file to load on start up

You can also setup Zoom to automatically index your site, upload the files, or generate statistical reports on a regular basis with the built-in Zoom Scheduler. You will first need to make sure that your current indexing configurations are correct, and that you have these settings saved in a (.zcfg) configuration file. Make sure that the saved settings in this file will successfully index your site to your liking. If you have checked that your saved configuration is suitable for scheduling to run unsupervised, you can then click on the scheduler button on the toolbar, or from the "Tools" menu, and select "Schedule automatic indexing". Refer to "2.9 Scheduling and automatic indexing" from the Users' Guide to find out more on how you can automate your indexing process.

2.2 File Format

Zoom Configuration files are stored as text file, meaning you can open it in a text editor and view its contents. Even as a text file, there are different types of encoding that maps from what is stored in the file to what you see when you open it in a text editor. The following are the different encodings (or character sets) that are common:

1. ASCII – stands for “American Standard Code for Information Interchange. It contains 128 characters, 33 of which are non-printable. This encoding is based on the English (Latin 1) alphabet. The printable characters are numbered from 32 to 126. For example, a character stored as 32 will be seen as a space in a text editor whereas a character stored as 97 will be seen as “a” (i.e. the lowercase ‘A’).

Because ASCII can only store numbers and English alphabet, other languages that are not based on the English alphabet need a new system of character encoding to represent its equivalent characters (modern browsers and text editors can display characters in Chinese, Japanese, Russian, etc). Unicode is an industry standard designed to allow text and symbols from all languages to be consistently represented and manipulated by computers. Unicode characters can be encoded using any of several schemes termed Unicode Transformation Formats (UTF):

2. UTF-8 (8-bit UCS) – UTF-8 is a byte-oriented variable length character encoding form of Unicode. The minimum unit to store a character is 8 bits.
3. UTF-16 (16-bit UCS) – UTF-16 is a variable length character encoding for Unicode that uses a single 16-bit code unit to encode the most common characters and a pair of 16-bit code unit, called surrogate pair, to emphasize the less commonly used characters. The minimum unit to store a character is 16 bits

Zoom Configuration files can be either UTF-8 or UTF-16LE (Little-Endian) Unicode encoding format.

Address	100	101
Big endian	0x01	0x10
Little endian	0x10	0x01

Endianness refers to the byte order of the data. Consider the integer value 272 stored at memory location 100. In hexadecimal, it is represented as 0x0110, where the most significant byte (MSB) is 0x01 and the least significant byte (LSB) is 0x10. Little-endian means that the least significant byte (also known as the *LSB*, which is 0x10 in our example) is stored at the memory location with the lowest address (“little end first”).

Zoom configuration file does not use binary data to store configuration values. In UTF-16LE, ASCII character less than 0x7F is mapped as is but with a 0x00 byte padded after it. For example, the number 1 is stored as hexadecimal 0x31 (ASCII code for the character “1”) instead of hexadecimal 0x01. In an UTF-16LE scheme, it is 0x3100 (with a 0x00 padded after it). The alphabet A is stored as hexadecimal 0x41 (ASCII code for character “A”). In an UTF-16LE scheme, it is 0x4100 (with 0x00 padded after it).

Extract from an actual Zoom configuration file (first 3 lines of the file):

__6_0

#STARTDIR:

#SPIDERURL:http://www.example.com/

This is how the above extracted text looks like in UTF-16LE when viewed from UltraEdit (a text editor capable of displaying data in hexadecimal value) in HEX mode (you might have to press the “Toggle HEX Mode” button from the tool bar to get this view):

	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f	
00000000h:	FF	FE	5F	00	5F	00	36	00	5F	00	30	00	0D	00	0A	00	; Ÿþ_._.6._.0.....
00000010h:	23	00	53	00	54	00	41	00	52	00	54	00	44	00	49	00	; #.S.T.A.R.T.D.I.
00000020h:	52	00	3A	00	0D	00	0A	00	23	00	53	00	50	00	49	00	; R.:.....#.S.P.I.
00000030h:	44	00	45	00	52	00	55	00	52	00	4C	00	3A	00	68	00	; D.E.R.U.R.L.:.h.
00000040h:	74	00	74	00	70	00	3A	00	2F	00	2F	00	77	00	77	00	; t.t.p.:././.w.w.
00000050h:	77	00	2E	00	65	00	78	00	61	00	6D	00	70	00	6C	00	; w...e.x.a.m.p.l.

0xFF and 0xFE is the UTF-16 Byte-Order Mark (BOM). This marker is used to inform programs to treat this file as UTF-16 encoding.

0x5F is the ASCII representation of an underscore character “_”. Remember that we need to pad 0x00 after it, making it 0x5F00. 0x3600 is “6” and 0x3000 is “0” (representing the file format version number). Since every character is stored as 2 bytes (after the BOM), if we look at the first line, it has 5 characters (2 underscores, and the digits “5” and “0”), meaning it is represented by the first 10 bytes: 5F 00 5F 00 35 00 5F 00 30 00 (exactly as we expected!).

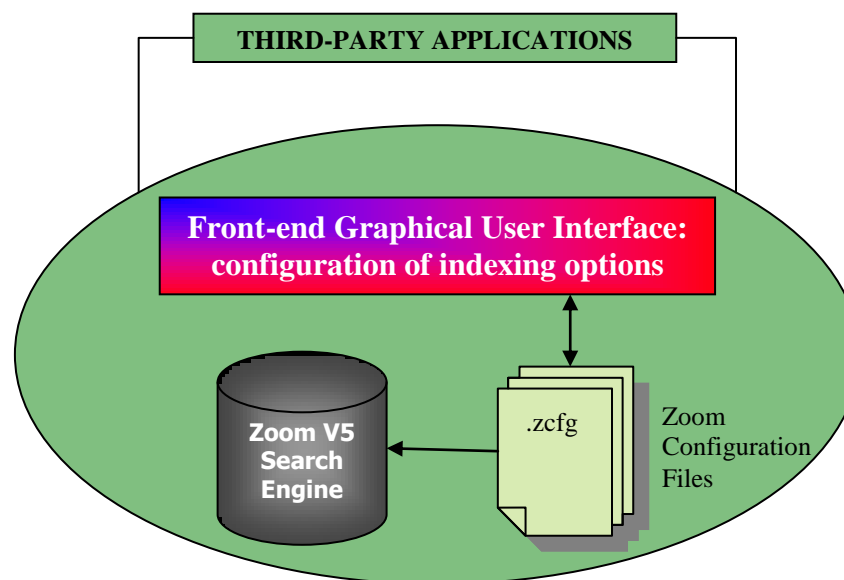
In Windows, every line is terminated by a CR-LF pair (carriage return “\r” and line feed “\n”). The ASCII code for a carriage return is 0x0D and 0x0A for a line feed, making them 0x0D00 and 0x0A00 respectively after padding. Note that when reading a file in Windows, a CR-LF pair is replaced with a single line feed “\n” and is being counted as one character.

A full list of ASCII characters can be found at www.asciitable.com.

2.3 Using Zoom to Facilitate 3rd Party Applications

With an in-depth understanding of the Zoom Configuration File Format, 3rd party software developers have the flexibility to configure Zoom from within their own application and use Zoom as a facility to perform indexing tasks according to their application's needs. Examples are:

- i) You are writing a help application that needs to index help files. You can have a front-end GUI that takes in user configuration, store the configuration in Zoom configuration file format and run Zoom with this configuration.
- ii) You are hosting a web server that has 100 users. Each user has its own web pages and web contents. You can provide a web-based interface that allow them to configure how they want to index their web pages, saves this configuration file in their root folder (bearing in mind that the start folder and output folder is their root folder) and run Zoom with this configuration. Each user now has a search engine for his/her web pages!



Example of a 3rd-party application embedding Zoom in their product

3.0 FIELD DESCRIPTION

The table below describes each field in the Zoom configuration file. An example of a complete Zoom configuration file follows is shown in “Section 3.2”.

3.1 Table of Field Names

Note that not all the fields will be present. It depends on your Zoom configuration.

When the default value is marked “(absent)”, it means that the field is absent by default (i.e. not written to the file). This means that this feature is either disabled by default, or it takes the default value depending on the context of the description of this field. An example is the field “#MAPACCENTS:”. All accents are not mapped by default.

When the default value is marked “(blank)”, it means that the field exists in the file but without any data after the colon sign “:” on the same line. An example is the field “#STARTDIR:”. A default start directory is not provided by default.

Configuration value type:

- numeric: Numerical values have the hexadecimal range 0x30 (character zero “0”) to 0x39 (character nine “9”).
- string: String values have the hexadecimal range 0x20 (space character) to 0x7E (tilde character “~”), i.e. all the printable ASCII characters. It includes alphabets, numbers, punctuation marks and a few other symbols (backslashes “\” and colons “:” for Windows path, forward slashes “/” for URLs, period “.” for IP addresses, vertical line “|” for logical OR operation, etc).
- encoded: Encoded values are used for storing passwords. The value of the key is 83135019 (hexadecimal 0x4F48A2B Refer to “Section 4.0, Key for Password Encoding/Decoding” for more info.

Field name	Default Value	Type	Description
__A_b (version)	__7_0	string	Contains the version of the configuration file. The first 5 bytes of the file needs to contain this data. The first 2 bytes must be 2 underscores (“__”). The 3 rd byte is the major version. The 4 th byte is an underscore (“_”). The 5 th byte is the minor version. A: File format major version b: File format minor version This field is mandatory.

#STARTDIR:	(blank)	string	Start directory for offline mode. This field is mandatory for offline mode.
#SPIDERURL:	(blank)	string	Start URL for spider mode. This field is mandatory for spider mode.
#BASEURL:	(blank)	string	Base URL of your web server. This field is mandatory.
#OUTDIR:	C:\Program Files\Zoom Search Engine 6.0	string	Directory to output index files to. This field defaults to the installation directory of Zoom. This field is mandatory.
#SPIDERURLTYPE:	0	numeric	0: Index page and follow internal links 1: Index single page only 2: Follow links only 3: Index page and follow internal and external links (Internal links begin with the base URL) 4: (Reserved for internal use) 5: Follow all links on this page only 6: (Reserved for internal use)
#SPIDERURLUSELIMIT:	0	numeric	0: No limit on the number of files to index from this start point 1: Limit the number of files to index from this start point
#SPIDERURLLIMIT:	0	numeric	If SPIDERURLUSELIMIT is "1", the maximum number of files to index from this start point
#USE-CRC:	0	numeric	Use CRC-32 to skip files with identical content 0: Off 1: On
#CURRENTMODE:	1	numeric	0: Offline 1: Spider
#DLTHREADS:	2	numeric	Number of download threads.
#NOCACHE:	0	numeric	1: All files are reloaded (not using cache) 0: Files are not reloaded (use cache)
#BEEP-ON-FINISH:	0	numeric	Beep when finished indexing
#THROTTLEDELAY:	0	numeric	Number of milliseconds to delay between pages when spider crawling a website.
#OUTPUT:	PHP	string	Output format for search script/binary. JSFILE: JavaScript search ASP: ASP search PHP: PHP search

			CGI: CGI search (or ASP.NET with #ISDOTNET:1 specified)
#OUTPUT_OS:	0	numeric	(CGI only) Target OS to run output binary 0: Windows 1: Linux 2: BSD 3: FlyingAnt Server
#ISDOTNET:	0	numeric	0: ASP.NET platform is not selected 1: ASP.NET platform is selected
#VERBOSE:	0	numeric	Determines if log messages will be displayed on the index log window 0: Verbose is off 1: Verbose is on
#LOGMODE:	0	numeric	Specifies the logging mode. 0: Basic 1: Detailed
#LOGOPTIONS:	INDEXED FILTERED INIT DOWNLOAD UPLOAD FILEIO PLUGIN INFO ERROR WARNING SUMMARY BROKEN	string	Determines the messages to be displayed on the index log window (Strings are concatenated with the pipe character “ ” to join options, order is not important) SCANNED: Scanned files INDEXED: Log indexed files SKIPPED: Log skipped files FILTERED: Log filtered files INIT: Log initialization DOWNLOAD: Log downloaded files UPLOAD: Log uploaded files FILEIO: Log write/read files PLUGIN: Log plug-in activity INFO: Log info ERROR: Log errors WARNING: Log warning QUEUE: Log queue SUMMARY: Log summary THREAD: Log thread info BROKEN: Broken links

#LOGWRITETOFILE: :	0	numeric	0: No log info will be written during indexing. 1: Log info will be written during indexing.
#LOGWRITETOFILENAME: :	C:\ProgramData\Wrensoft\Zoom Search Engine 6.0\indexlog.txt	string	File name to for index file logging. This field defaults to "indexlog.txt" in the program data directory of Zoom.
#LOGAPPENDDATETIME:	0	numeric	0: Do not append date and time to log filename 1: Append date and time of indexing to log filename
#LOGDEBUGMODE: :	0	numeric	0: Debug mode is off. 1: Debug mode is on (i.e. includes debug log messages).
#SCAN_NOEXTENSION:	0	numeric	0: Do not scan files with no extensions 1: Scan files with no extensions
#SCAN_FILELINKS:	0	numeric	Enable scanning of files linked via file:// URLs in spider mode. 0: Do not scan files linked via " file:// " URLs in spider mode (default) 1: Scan files linked via " file:// " URLs in spider mode
#PARSEJSLINKS	0	numeric	0: Do not parse JavaScript code for HTML links in Spider Mode 1: Parse JavaScript code for HTML links in Spider Mode
#SCAN_USELOCALDESCPATH:	0	numeric	This option allows you to specify custom description (.desc) files for your plugin supported files, by hosting them locally in an offline folder. It allows you to override incorrect meta data on remotely hosted files (possibly on sites that you can not change, or where you do not wish to host the .desc files). 0: Do not use custom description files 1: Use custom description files.
#SCAN_LOCALDESCPATH:	(absent)	numeric	If using local description files (i.e. SCAN_USELOCALDESCPATH is set to "1"), the path of the directory where the description files are located.
#SCAN_ROBOTSTXT	0	numeric	0: Do not look for or download "robots.txt" files. Will ignore meta robots tags. 1: Download and obey "robots.txt" file as well as meta robots instructions
#SCAN_CHECKTHUMBS	0	numeric	0: Do not check if thumbnail URL exists 1: Check if thumbnail URL exists before using URL in search results.
#SCAN_UNKNOWNEXTENSIONS	0	numeric	0: Do not scan unknown extensions (extensions not in the scan

			list) 1: Scan unknown extensions (scan extensions not in the list, determine file type by file analysis.
#SCAN_ALLEMAILATTACHMENTS	0	numeric	0: Do not scan email attachments 1: Scan attachments for email file types, e.g. .dbx, .mbox, .msg
#USERAGENTSTR	(absent)	string	Text to be used in the User-Agent string when indexing in Spider Mode.
#REWRITELINKS:	0	numeric	Enables rewriting of indexed URLs. 0: Do not rewrite links (default) 1: Rewrite links using REWRITEFIND and REWRITEWITH settings.
#REWRITEFIND:	(blank)	string	Text to search for when rewriting links.
#REWRITEWITH:	(blank)	string	Text to replace with when rewriting links.
#INDEXOPTIONS:	METADESC CONTENT TITLE KEYWORDS LINKTEXT ALTTEXT	string	Determines the part of a page to index (Strings are concatenated with the pipe character “ ” to join options) TITLE: Index title KEYWORDS: Index keywords METADESC: Index description CONTENT: Index content FILENAME: Index filename AUTHOR: Index author LINKTEXT: Index link text ALTTEXT: Index ALT text DCMETA: Index Dublin Core data PARAM: Index values within param tags URLPATH: Index the URL and path URLDOMAIN: Index the URL domain
#RESULTOPTIONS:	NUMBER TITLE METADESC CONTEXT TERMS SCORE DATE URL FILESIZE	string	Determines what to appear for search results (Strings are concatenated with the pipe character “ ” to join options) NUMBER: Show result number TITLE: Show title METADESC: Show description CONTEXT: Show context

			TERMS: Show number of terms matched SCORE: Show score DATE: Show date URL: Show URL FILESIZE: Show filesize
#USE-UTF8:	0	numeric	Use Unicode (UTF-8) encoding for your website 0: False 1: True
#CODEPAGE:	1252	numeric	If not using UTF-8, use this encoding. Supported encodings are: 850: windows-850 (Multilingual Latin 1) 874: windows-874 (Thai) 1250: windows-1250 (Eastern European) 1251: windows-1251 (Cyrillic) 1252: windows-874 (English / Latin 1) 1253: windows-1253 (Greek) 1254: windows-1254 (Turkish) 1255: windows-1255 (Hebrew) 1256: windows-1256 (Arabic) 1257: windows-1257 (Baltic) 28591: iso-8859-1 (English / Latin 1) 28592: iso-8859-2 (Central Europe) 28595: iso-8859-5 (Cyrillic) 28597: iso-8859-7 (Greek) 28598: iso-8859-8 (Hebrew) 28599: iso-8859-9 (Latin 5) 28605: iso-8859-15 (Latin 9) 20866: koi8-r (Cyrillic)
#MAPACCENTS:	(absent)	string	Enable mapping of accented characters to their non-accented equivalent. (Strings are concatenated, order is not important) To enable mapping of all accents, simply write this field into the file on a new line without any value after the colon sign “.”: #MAPACCENTS:(blank)

			<p>All occurrences of accented characters will be mapped to their non-accented equivalent (eg. ó, ò, ô, õ will all be treated as “o”). With this enabled, a user can enter the search word “cliché” and it will find all occurrences of the word on your website spelt as either “cliché” or “cliche”.</p> <p>To disable mapping of an accent, concatenate the following values:</p> <p>NOACCENTS: Disable this feature for accents (ó, ò, ô, õ, etc.) NOUMLAUTS: Disable this feature for umlauts (ä, ë, ï, ö, ü, etc.) NOLIGATURES: Disable this feature for ligatures (å, ø, æ, etc.)</p> <p>For example, to disable mapping of umlauts: #MAPACCENTS: NOUMLAUTS</p> <p>To disable mapping of umlauts and accents: #MAPACCENTS: NOUMLAUTS NOACCENTS</p>
#DIGRAPHS:	(absent)	numeric	0: Do not use digraphs for umlauts 1: Use digraphs for umlauts (when umlaut insensitivity enabled)
#MAPLATINLIGATURES	0	numeric	0: Do not map latin ligatures when accent insensitivity enabled 1: Map latin ligature (ij=ii) when accent insensitivity enabled
#ZLANGFILE:	English.zlang	string	Search page language. You can find the language files in the “lang” directory where Zoom is installed.
#USESTEMMING:	1	numeric	0: Do not use stemming 1: Use stemming
#STEMALGO:	2	numeric	Specifies the algorithm for stemming. 0: Danish 1: Dutch 2: English 3: Finnish 4: French 5: German

			6: Hungarian 7: Italian 8: Norwegian 9: Porter 10: Portuguese 11: Romanian 12: Russian 13: Spanish 14: Swedish 15: Turkish
#SKIPUNDERScore:	1	numeric	Skip files or directories that begin with an underscore 0: Disable 1: Enable
#SKIPURLCASE	0	numeric	0: Do not skip pages when they are only different by upper or lower case. 1: Skip pages ignoring upper and lower case differences
#MINWORDLEN:	2	numeric	Skip words less than this number of characters
#FORMFORMAT:	2	numeric	Search form appearance (search box format to appear on the search page) 0: Do not generate 1: Basic (simple search box) 2: Advance (full options) With “0: Do not generate”, the script will not generate the search box. This allows you to create your own search form in your search template HTML file (or provide the search interface elsewhere, such as in a separate frame). Note that the generated search form is useful because it can remember the entries of the previous search query.
#HIGHLIGHTING:	0	numeric	Highlight words matched in search results 0: Do not highlight 1: Highlight
#GOTOHIGHLIGHT:	0	numeric	Jump to matched word and highlight matched words within documents 0: Do not jump

			1: Jump
#USEXML:	0	numeric	0: Use HTML output by default (CGI only) 1: Use XML output by default (CGI only)
#XMLTITLE:	(absent)	string	This is the title for the XML results specified according to the OpenSearch channel requirements.
#XMLDESC:	(absent)	string	This is the description for the XML results specified according to the OpenSearch channel requirements.
#XMLURL:	(absent)	string	This is the URL for the XML results specified according to the OpenSearch channel requirements.
#XML_OPENSEARCH_DESCURL:	(absent)	string	This is the URL for the description file used for the OpenSearch description, as according to the OpenSearch channel requirements.
#XMLXSLTURL	(absent)	string	This is the URL for the XML stylesheet file.
#LOGGING:	0	numeric	Log searches made on your site (not available in Javascript) 0: Off 1: On
#LOGGING_FILE:	./logs/searchwords.log	string	Log file name (requires server-side write permission on the log file specified here).
#TIMING:	0	numeric	Show time taken to perform search 0: Do not show 1: Show
#NOCHARSET:	0	numeric	Disable character set enforcing on search script 0: OFF (i.e. Character set enforcing enabled) 1: ON: (i.e. Character set enforcing disabled)
#DEFAULT_TO_AND:	0	numeric	Default the searching method to either “match all search words” or “match any search words”. 0: Match any search words 1: Match all search words
#CONTEXTSIZE:	30	numeric	Size of context
#EXACTPHRASE:	500	numeric	Maximum context seeks when allowing exact phrase searching (requires content indexing) 0: Off
#LINKTARGET:	(absent)	string	This option defines how clicking on a search result link will open the page. The options available are: - The current window (default)

			<ul style="list-style-type: none"> - A new window - A frame or window with the specified name. <p>Note that this is effectively equivalent to a target= attribute in an anchor HREF link in HTML.</p> <p>To open in the current window, remove this field (as it defaults to opening in the current window when this field is not found). To open in a new window, use “_blank”. To open in a frame, provide the frame name.</p>
#TRUNCATESHOWURL:	(absent)	numeric	Specify the number of characters to allow before truncating the URL displayed below each search result. Zero value indicates no truncation.
#SEARCHASSUBSTRING:	0	numeric	<p>Enable search words which occur within another word to be considered a match</p> <p>0: Do not search as substring (search word which occur within another word is not a match)</p> <p>1: Search as substring (search word which occur within another word is a match)</p>
#STRIPDIACRITICS:	0	numeric	<p>0: Do not strip unimportant word diacritics (eg. Arabic characters used for pronunciation)</p> <p>1: Strip unimportant diacritic characters</p>
#NO_TOLOWER:	0	numeric	<p>Case sensitive</p> <p>0: False</p> <p>1: True</p>
#ZOOMINFO:	1	numeric	<p>Show Zoom info line</p> <p>0: Do not show</p> <p>1: Show</p>
#USEDATETIME:	0	numeric	<p>This option allows the user to sort their search results by date.</p> <p>0: Do not allow sorting by date</p> <p>1: Allow sorting by date</p> <p>If sorting by date is allowed, you will see this option at the top right of the searched results, allowing you to toggle between sorting by date and sorting by relevance:</p>

			Sorted by relevance / Sorted by date
#WORDJOINCHARS:	._'	string	Allow the following characters to join words (Characters are concatenated) . (dots) _ (underscore) - (hyphens) " (apostrophes) # (hash sign) , (comma) \$ (dollar sign) : (colon) & (ampersand) / (slashes)
#PLUGINOPENNEWWINDOW:	(absent)	numeric	0: Do not open plugin supported file formats in a new window 1: Open plugin supported file formats in a new window
#PLUGINUSETIMEOUT:	0	numeric	0: Do not use plugin time out 1: Use plugin time out
#PLUGINTIMEOUTVALUE	60000	numeric	Number of milliseconds to wait for plugin to respond before timing out and terminating plugin.
#ZOOMIMAGE:	0	numeric	Allows an icon or thumbnail to appear alongside search results. Images will only appear for files which have a ZOOMIMAGE tag specified or an icon or thumbnail configured for that file extension. Refer to "#EXTENSIONS_START:". 0: Do not display images/icons/thumbnails alongside results 1: Display images/icons/thumbnails alongside results
#SPELLING:	0	numeric	Provide spelling suggestion 0: Off 1: On
#SPELLINGWHENLESSTHAN:	5	numeric	Provide spelling suggestion only when less than this number of results found
#LINKBACKURL:	(absent)	string	This option allows you to specify the URL used to link back to the search script. By default, it should be left blank (or remove this field from the configuration file). However, if you wish to

			embed the search script in your own server-side scripts (eg. you have included search.php into your own PHP file, or included the CGI within a PHP script, etc.) you can then specify the filename of your embedded script here so that it will link to the correct file.
#WIZARD_UPLOADREQD:	1	numeric	When indexing is complete, determines the default behavior to one of the following (user still need to click on “OK” button to continue): 0: “Do not upload the files, I will do this myself” 1: “Upload the above files to my website using Zoom”
#REPORTLOGFILE:	(absent)	string	URL or location of statistical file to generate the report from.
#REPORTOUTPUTDIR:	(absent)	string	Directory that generated files will be saved.
#REPORTUSEDATES:	0	numeric	An option for statistic report to append time-stamp to generated files. 0: Do not append time-stamp 1: Append time-stamp
#REPORT_TOP10:	(absent)	numeric	Enable reporting for “Top 10 Search phrases”. 0: Last Day 1: Last 7 Days 2: Last 31 Days 3: Entire Log file (default if enabled)
#REPORT_TOPNR:	(absent)	numeric	Enable reporting for “Top 10 No Result phrases” 0: Last Day 1: Last 7 Days 2: Last 31 Days 3: Entire Log file (default if enabled)
#REPORT_DAY:	(absent)	numeric	Enable reporting for “Searches per day (over a 1-31 day period)” 0: Last 7 Days 1: Last 14 Days 2: Last 21 Days 3: Last 31 Days (default if enabled)
#REPORT_DAY_TYPE:	(absent)	numeric	Specifies diagram type for “Searches per day (over a 1-31 day period)” 0: Bar chart (default if enabled) 1: Line graph

#REPORT_WEEK:	(absent)	numeric	Enable reporting for “Searches per week (over a 1 to 12 week period)” 0: Last 4 Weeks 1: Last 8 Weeks 2: Last 12 Weeks (default if enabled)
#REPORT_WEEK_TYPE:	(absent)	numeric	Specifies diagram type for “Searches per week (over a 1 to 12 week period)” 0: Bar chart (default if enabled) 1: Line graph
#REPORT_MONTH:	(absent)	numeric	Enable reporting for “Searches per month (over a 1 to 6 month period)” 0: Last 3 Months 1: Last 4 Months 2: Last 5 Months 3: Last 6 Months (default if enabled)
#REPORT_MONTH_TYPE:	(absent)	numeric	Specifies diagram type for “Searches per month (over a 1 to 6 month period)” 0: Bar chart (default if enabled) 1: Line graph
#REPORT_LISTALL:	(absent)	numeric	Enable Zoom to list this number of top searched words (sorted by popularity). Defaults to 100 if enabled.
#WORDWEIGHT_TITLE:	3	numeric	Weighting of title -5 to 5
#WORDWEIGHT_DESC:	0	numeric	Weighting of description -5 to 5
#WORDWEIGHT_KEYWORDS:	1	numeric	Weighting of keywords -5 to 5
#WORDWEIGHT_FILENAME:	0	numeric	Weighting of filename -5 to 5
#WORDWEIGHT_HEADINGS:	2	numeric	Weighting of heading -5 to 5
#WORDWEIGHT_LINKTEXT:	0	numeric	Weighting of link/ALT text (defaults to 0 when enabled) -5 to 5
#WORDWEIGHT_CONTENT:	-1	numeric	Weighting of body content of page -5 to 5

#WORDWEIGHT_DENSITY:	1	numeric	Adjust weighting based on word density of page 0: No adjustment 1: Standard adjustment (default) 2: Strong adjustment
#WORDWEIGHT_SHORTURLS:	1	numeric	Adjust weight according to length of the URL 0: No adjustment 1: Standard adjustment (default) 2: Strong adjustment With "Standard adjustment", the weighting of a page may be slightly lowered if the URL is considered lengthy. Similarly, a page with a short URL may receive an increase in weighting. This will effectively give preference to "home pages" of the site, as opposed to those which are several folders deep. "Strong adjustment" provides an even greater level of scaling, and "No adjustment" would disable this feature so that all files are treated equally regardless of their URL length.
#WORDWEIGHT_PROXIMITY:	1	numeric	Adjust weight based on word position. 0: No adjustment 1: Standard adjustment (default) 2: Strong adjustment
#USESRCPATH_SCRIPT:	(absent)	string	If you wish to use a copy of the search script (search.asp, search.php or search.js) that is located in a different folder besides the one in the Zoom installation directory, then you can change the path here. This is only necessary if you are making modifications to the search script source code, and you wish to maintain multiple versions to be used with different sites.
#USE-AUTH:	0	numeric	HTTP authentication 0: Off 1: On
#USE-COOKIES:	0	numeric	0: Do not use cookies from Windows and IE 1: Use cookies from Windows and IE
#AUTHINFO:	(absent)		HTTP Authentication info
		string	User name (followed by new line)
		encoded	User password (followed by new line)

#USE-COOKIELOGIN:	(absent)	numeric	0: Do not use cookie-based "Automatic login" 1: Use cookie-based "Automatic login"
#COOKIELOGINURL:	(absent)	string	URL for cookie-based "Automatic login"
#COOKIELOGINNAME:	(absent)	string	Login variable name
#COOKIELOGINVALUE:	(absent)	string	Your login for "Automatic login"
#COOKIEPASSNAME:	(absent)	string	Password variable name for "Automatic login" (followed by new line)
		encoded	Your password for "Automatic login"
#COOKIEPARAMS:	(absent)	string	Additional parameters for cookie login
#FTPINFO_START	(absent)		Start of FTP login info (for automatic uploading of index files).
		string	FTP Server (followed by new line)
		numeric	Port Number (followed by new line)
		string	User name (followed by new line)
		encoded	User password (followed by new line)
		string	Upload path (followed by new line)
#FTPINFO_END	(absent)		End of FTP login info. This field is mandatory when "#FTPINFO_START:" is present.
#FTPAUTO:	(absent)	numeric	Automatically upload files at end of indexing 0: Off (default if enabled) 1: On
#FTPNOTEMPLATE:	(absent)	numeric	0: Upload search template (default if enabled) 1: Do not upload search template (requires existing file on server)
#FTPRENAMETMP:	(absent)	numeric	Zoom will upload your search files with a ".tmp" extension so as not to overwrite your existing index files during the upload process. It will then only rename the files from the ".tmp" extension to its proper file extensions (and thus overwriting our existing index) when all files have been successfully uploaded. This minimizes the time which your search function would be unavailable while the old index files are being updated. 0: Do not rename files 1: Rename files
#FTPUSEPASV:	(absent)	numeric	0: Do not use PASV mode for FTP (default if enabled) 1: Use PASV mode for FTP
#BINUSEDESC:	0	numeric	This is the setting for binary files such as ".exe", ".zip", ".wmv",

			<p>".avi", etc. Zoom has a list of binary file formats that doesn't have plugin support for, but Zoom recognizes them and indexes only their filenames. Zoom also allows the user to specify .DESC files for them (like with the plugins) so that user can have custom meta descriptions for these files.</p> <p>0: Do not use description files for binary files 1: Use description files for binary files</p>
#PLUGIN_DESCFILES:	(blank)	string	<p>Specify the type of file that Zoom will use its description file as its metadata. Possible file types are:</p> <p>PDF: Acrobat documents (.pdf) DOC: Word documents (.doc) PPT: PowerPoint (95 and later) presentations (.ppt) SWF: Shockwave Flash (.swf) RTF: Rich Text Format (.rtf) WPD: WordPerfect documents (.wpd) XLS: Excel (95 and later) spreadsheets (.xls) DJVU: DjVu documents (.DjVu) IMAGE: Image files (.jpg, .tiff, .gif, .png) MP3: MPEG Layer 3 Audio Files (.mp3) DWF: AutoDesk CAD files (.dwf)</p> <p>Each entry should be separated by the pipe character, i.e. " ".</p> <p>Example: IMAGE DWF</p>
#PLUGIN_USEMETA:	PDF DOC PPT RTF SWF WPD XLS DJVU I MAGE MP3 DWF	string	Specify the type of file that Zoom will index its meta-info data (See PLUGIN_DESCFILES for file type)
#PLUGIN_USETECHNICAL:	MP3 IMAGE DWF	string	Specify the type of file that Zoom will index its meta-technical data (IMAGE and MP3 only)
#PLUGIN_PDF_USEPASSWORD:	(absent)		Password for protected PDF documents
		bool	<p>0: Do not use password for protected PDF files 1: Use password for protected PDF files</p>

			Defaults to 0 when enabled. If PDF password protection is enabled, it must be followed by the encoded password on the next line.
		encoded	Password
#PLUGIN_PDF_METHOD:	0	numeric	0: Scan text by presentation layout (default if enabled) 1: Scan text in raw formatting order
#PLUGIN_PDF_HIGHLIGHT:	1	numeric	Allows searched words to appear highlighted within Acrobat Reader when you click on a PDF document in the list of search results. Acrobat Reader will also scroll and locate the first occurrence of the word. This feature will only work for Acrobat Reader 6.0 or later. 0: Do not highlight and locate 1: Highlight and locate.
#PLUGIN_IMG_MINFILESIZE:	5	numeric	Minimum size of image file for Zoom to index (in KBytes) Defaults to 5 when enabled.
#MAXPAGES_LIMIT:	1000	numeric	Maximum files to index.
#MAXWORDS_LIMIT:	50000	numeric	Maximum unique words to index
#USE_MAXWORDS_LIMIT:	(absent)	numeric	0: Do not use max words limit 1: Use max number of words limit
#MAXFILESIZE_LIMIT:	1048576	numeric	Maximum file size to index (in bytes)
#DESCLENGTH_LIMIT:	150	numeric	Maximum description length
#MAXPAGES_PER_STARTPT_LIMIT:	(absent)	numeric	Maximum number of files to index from start-point
#MAXWORDS_PER_PAGE_LIMIT:	(absent)	numeric	Maximum number of words per file
#MAXWORDLENGTH_LIMIT:	(absent)	numeric	Maximum number of characters in a word
#OPTIMIZE_SETTING:	3	numeric	Optimize search behaviour for large sites. 0: Slow search (most accurate) 3: Default 6: Fast search (least accurate)
#EXTENSIONS_START			Start of string list of file extensions
	.htm .html	string list	Contains a list of file extensions that Zoom will scan, the file type for the extension, and its thumbnail display option. These fields are separated by the pipe character “ ” with each extension on a new line as follows:

			<p>[extension] FILETYPE:[type]</p> <p>Where [type] is one of the following values:</p> <ul style="list-style-type: none"> 0: HTML text 1: Plain text 2: Unknown format 3: Binary 4: Word DOC document 5: Acrobat PDF document 6: PPT presentation 7: XLS spreadsheet 8: WPD document 9: Flash SWF file 10: RTF document 11: DjVu document 12: Image file 13: MP3 file 14: AutoCAD DWF file 15: Office 2007 file 16: Bittorrent .torrent file 17: MHT web archive 18: ZIP archive <p>This can then be followed by the optional parameters for thumbnails and images:</p> <p><u>Display same icon for all files of this extension</u> [IMAGEURL:[URL of thumb]] THUMBSEXT:[thumb extension] THUMBSPATH:[path where thumbs are located]</p> <p>For example, if all html documents should be displayed with the thumbnail located at http://mythumbnail.com/thumb_html.jpg, then the entry should be:</p> <p>.html FILETYPE:0 IMAGEURL:</p>
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			<p><code>http://mythumbnail.com/thumb_html.jpg THUMBSEXT:.jpg THUMBSPATH:./images</code></p> <p>Note the pipe character “ ” between the extension type, the thumbnail location, the thumbnail extension and the thumbnails’ path. Each entry must be followed by a new-line (carriage-return). THUMBSPATH is optional when using IMAGEURL. If THUMBSPATH is present, Zoom will “remember” (see picture below) what the path is (although in this case, the path is not used because we specify an actual image URL).</p> <div> <p>Associate files with thumbnails found at the following URL folder:</p> <input type="text" value="./images"/> </div> <p><u>Display different thumbnails for each file</u> <code> USETHUMB THUMBSEXT:[thumb extension] THUMBSPATH:[path where thumbs are located] THUMBSPREFIX:[thumb prefix] THUMBSPOSTFIX:[thumb postfix]</code></p> <p>Note the pipe character “ ” between the extension type, the thumbnail extension, the thumbnail path, the thumbnail prefix and the thumbnail postfix. THUMBSPREFIX and THUMBSPOSTFIX are optional. If neither is present, then Zoom will look for thumbnail with the same file name. If THUMBSPREFIX is present, then Zoom will look for thumbnail with the same file name but with the prefix. If THUMBSPOSTFIX is present, then Zoom will look for thumbnail with the same file name but with the postfix. Each entry must be followed by a new-line (carriage-return).</p> <p>For example, to display the text documents with the PNGs of the</p>
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			<p>same file name located at “./thumbs” with no prefix or postfix, then the entry should be:</p> <p>.txt FILETYPE:0 USETHUMBS THUMBSEXT:.png THUMBS PATH:./</p> <p>To display JPEG images with thumbnails of the same file name located at “./images” with postfix “_david”, then the entry should be:</p> <p>.jpg FILETYPE:12 USETHUMBS THUMBSEXT:.jpg THUMBS PATH:./images THUMBSPOSTFIX:_david</p> <p>If an extension type is not followed by any options, then no thumbnails will be displayed.</p>
#EXTENSIONS_END			End of string list of file extensions
#ADDSTARTURLS_START	(absent)		Start of list of additional spider URLs to index
		string list	<p>Contains a list of additional spider URLs to index. The entries are:</p> <p><i>Additional spider URL</i> (followed by a new line)</p> <p><i>Additional spider URL options</i> (followed by a new line)</p> <p>This is a pipe separated line, in the following format:</p> <p><Indexing option> <UseLimit> <Limit> <Boost></p> <p><Indexing option> is one of the following values:</p> <ul style="list-style-type: none"> 0: Index page and follow internal links 1: Index single page only 2: Follow links only 3: Index page and follow internal and external links 4: (Reserved for internal use) 5: Follow all links on this page only <p><UseLimit> is a 1 or 0 which represents whether a limit is applied to the number of pages to be indexed from this start point.</p>

			<p><Limit> is the number of pages to restrict indexing to for this particular start point when UseLimit is set to 1.</p> <p><Boost> is the weighting for this start point</p> <p><i>Additional base URL</i> (followed by a new line)</p> <p>All elements of each entry must exist (i.e. Spider URL/Spider Mode/Base URL)</p>
#ADDSTARTURLS_END	(absent)		End of list of additional spider URLs to index. This field is mandatory when “#ADDSTARTURLS_START:” is present.
#ADDSTARTDIRS_START	(absent)		Start of list of additional start directories for offline mode
		string list	<p>Contains a list of additional start directories for offline mode to index.</p> <p>Entries are:</p> <p><i>Additional start directory</i> (followed by a new line)</p> <p><i>Additional base URL</i> (followed by a new line)</p> <p>All elements of each entry must exist (i.e. Start directory/Base URL)</p>
#ADDSTARTDIRS_END	(absent)		Start of list of additional start directories for offline mode. This field is mandatory when “#ADDSTARTDIRS_START:” is present.
#SKIPPAGES_START			Start string list of pages and folders to skip indexing if their names contain these words.
	(blank)	string list	<p>Pages and folders with names containing any of these words will not be scanned. For example, to skip indexing any URL or path that contains “cat” and/or dog”:</p> <p>cat dog</p> <p>Each word is separated by a new line.</p>

#SKIPPAGES_END			End of pages to skip indexing. This field is mandatory when “#SKIPPAGES_START:” is present.
#SKIPWORDS_START			Start of list of words that Zoom will exclude from indexing. Each word is separated by a new line.
	(blank)	string list	Example: and or the it is an on into
#SKIPWORDS_END			End of string list of words that Zoom will exclude from indexing. This field is mandatory when “#SKIPWORDS_START:” is present.
#USECATS:	0	numeric	0: Do not use categories 1: Use categories
#USEDEFCATNAME:	0	numeric	0: Do not use a default “catch-all” category 1: Use a default “catch-all” category
#SEARCHMULTICATS:	0	numeric	0: Disallow searching by multiple categories 1: Allow searching by multiple categories
#CATEGORIES_START	(absent)		Start of list of categories that will appear in the search page as a pop-up.
		string list	<p>The first line is the name of the default category. This is required regardless of the value of #USEDEFCATNAME. However, it will not be used unless #USEDEFCATNAME is set to 1. The name of the default category must be followed by a new line.</p> <p>Subsequent entries are such: <i>Name of category</i> (followed by new line) <i>Pattern of category</i> (followed by new line) <i>Category options</i> (followed by new line) The category options must be in the following pipe separated format:</p>

			<p><Description> <IsExclusive> </p> <p><Description> is the category description used internally and displayed in the Indexer GUI. This is purely for your own maintenance use.</p> <p><IsExclusive> is a value of either 1 or 0 to represent whether the category will allow its files to belong to another category. When it is set to 1, files belonging to this category will not belong to any other category.</p> <p>Each entry must be comprised of the 3 lines mentioned above.</p>
#CATEGORIES_END	(absent)		<p>End of list of categories that will appear in the search page as a pop-up.</p> <p>This field is mandatory when “#CATEGORIES_START:” is present.</p>
#SYNONYMS_START	(absent)		<p>Start of list of synonyms to associate searches with.</p>
		string list	<p>Contains a list of synonyms to associate searches with.</p> <p>Entries are such: Word,Synonym (followed by new line)</p> <p>Each word is followed by a comma, then the synonym that Zoom will associate with the word. Every entry is separated by a new line.</p>
#SYNONYMS_END	(absent)		<p>End of list of synonyms to associate searches with. This field is mandatory when “#SYNONYMS_START:” is present.</p>
#RECOMMENDED_START	(absent)		<p>Start of list of recommended links when certain keywords are associated with the search.</p>
		string list	<p>Contains a list of recommended links when certain keywords are associated with the search.</p> <p>Entries are such: Keyword (followed by new line) URL (followed by new line)</p>

			URL title (followed by new line) URL description (optional – followed by new line) Image URL (optional – followed by new line) For the optional description string, leave blank if no description is desired (i.e just a new line without any text)
#RECOMMENDED_END	(absent)		End of list of recommended links when certain keywords are associated with the search. This field is mandatory when “#RECOMMENDED_START:” is present.
#RECOMMENDED_MAX:	3	numeric	Enable Zoom to show up to this number of recommended links per search query.
#USEFILTER:	0	numeric	0: Do not use content filtering (default) 1: Use content filtering
#FILTER_START			Start of list of content filters.
	(blank)	string list	Contains a list of content filters that determines how Zoom index the page. Entries are such: [+/-] keyword1 (followed by new line) [+/-] keyword2 (followed by new line) : : [+/-] keywordn (followed by new line) A plus (+) before a keyword will mean that Zoom will only index a file that contains that keyword. A minus (-) before a keyword will mean that Zoom will only index a file that DOES NOT contain that keyword.
#FILTER_END			End of list of content filters. This field is mandatory when “#FILTER START:” is present.
#SITEMAP_TXT:	0	numeric	Zoom will create a file named "urllist.txt" in your output directory at the end of indexing. This is a simple text file containing a full list of the web pages that have been indexed, compliant with the Yahoo Sitemap requirements, and can be submitted to Yahoo for search engine submissions and other

			<p>search engines accepting a similar sitemap format. It could also, of course, be used for your personal development or maintenance purposes, to keep track of the active files on your website.</p> <p>0: Do not create “urllist.txt” file. 1: Create “urllist.txt” file.</p>
#SITEMAP_XML:	0	numeric	<p>Zoom will create a XML sitemap which is compatible with the Google Sitemap specifications. The files will be created in your output directory at the end of indexing.</p> <p>As required by the Google Sitemap protocol, each XML file can only contain a maximum of 50,000 URLs. Multiple XML sitemap files are created when a website exceeds this number of pages (named "sitemap.xml", "sitemap2.xml", "sitemap3.xml" and so forth). A sitemap index file is also created which contains a list of these individual sitemap files ("sitemap_index.xml").</p> <p>0: Do not crate site-map files. 1: Create site-map files.</p>
#SITEMAP_UPLOAD:	(absent)	numeric	<p>XML sitemaps can be automatically uploaded at the end of indexing, along with your search files. You will need “#FTPAUTO:” to be set to 1 (i.e. a”utomatically upload files at the end of indexing”).</p>
#SITEMAP_UPLOADPATH:	(absent)	string	<p>You may want to specify a different folder or path on the server for your sitemap files, as the Google Sitemap protocol requires the files to be located at the base URL of the files which have been scanned. This means that if your sitemap files contain URLs such as:</p> <p>http://www.mysite.com/index.html http://www.mysite.com/story/page1.html http://www.mysite.com/news/archive/test.html</p> <p>Then your sitemap files must be hosted at the common base URL of the above files, and that is the root directory at: http://www.mysite.com/</p> <p>However, if your sitemap only contains URLs such as:</p>

			http://www.mysite.com/news/index.html http://www.mysite.com/news/page1.html http://www.mysite.com/news/archive/test.html Then you can have your sitemap files hosted at: http://www.mysite.com/news/ .
#SITEMAP_USEPAGEBOOST:	1	numeric	By selecting this option, the XML sitemap file(s) will also contain a priority value which indicates the importance of a page, relative to the rest of your website. It will determine this value based on the ZOOMPAGEBOOST meta tag which is also used for prioritizing pages within Zoom's index. 0: Do not use page boost 1: Use page boost.
#SITEMAP_BASEURL:	(blank)	string	Base URL of site map files.
#METAFIELD_MONEY_CURRENCY:	0	numeric	Currency to use for the "Money" Custom Meta Field type. 0: Dollar 1: Euro 2: Pounds 3: Yen
#METAFIELD_MONEY_SHOWDEC:	0	Numeric	Use decimals for "Money" Custom Meta field type. 0: No decimals 1: Use decimals
#METAFIELD_START			Start of list of Custom Meta Fields.
	(blank)	string list	Contains a list of Custom Meta fields as to what Zoom will index and allow searching by. Entries are such: <i>Meta name</i> (followed by new line) <i>Type</i> (followed by new line) as one of the following numeric: 0: Numeric 1: Text 2: Dropdown 3: Multi-select 4: Money <i>Show in Search Results label</i> (followed by new line)

			<p><i>Search criteria name</i> (followed by new line) <i>Search criteria method</i> (followed by new line) as follows:</p> <ul style="list-style-type: none"> 0: Exact match 1: Less than 2: Less than or equal to 3: Greater than 4: Greater than or equal to 5: Partial (substring) text match <p>If “Dropdown” or “Multi-select” is specified as the type of a meta field, the above is then followed by a list of the dropdown values (with each entry on a new line) preceded by #DROPDOWN_START and ended with #DROPDOWN_END. Note that this dropdown sub-list is expected within the meta field entry and before #METAFIELD_END.</p>
#METAFIELD_END			End of list of Custom Meta Fields. This field is mandatory when “#METAFIELD_START:” is present.
#APPDATAPATH	(absent)	string	Path for application data files. This is typically the Windows User Application Data folder.
#ESCAPEURLSUTF8	0	numeric	0: Do not perform URL encoding in UTF-8 1: Perform URL encoding (aka percent encoding) in UTF-8
#USEUTCTIME	0	numeric	0: Do not use UTC time 1: Use UTC time
#MAXRESULTSQUERY	1000	numeric	Maximum number of results per query
#BINEXTRACTSTRINGS	0	numeric	0: Do not extract strings from binary files 1: Extract strings from binary files
#BINSTRINGSPUNCT	0	numeric	0: Do not allow punctuation in strings extracted from binary files 1: Allow punctuation characters in binary strings
#BINSTRINGSNUMBERS	0	numeric	0: Do not allow numbers in strings extracted from binary files 1: Allow numbers in strings extracted from binary files
#BINSTRINGSMINLEN	(absent)	numeric	Min. number of letters for a binary string
#BINSTRINGSMAXLEN	(absent)	numeric	Max. number of letters for a binary string
#BINSTRINGREPEATCHAR	(absent)	numeric	Number of repeating characters allowed in a binary string
#BINSTRINGSCASECHANGE	(absent)	numeric	Number of case changes allowed in a binary string
#DATERANGESEARCH	0	numeric	0: Do not allow date range searching

			1: Allow date range searching
#DOTNETUSEFORMTAGS	0	numeric	0: Do not use form tags for the ASP.NET server control 1: Generate <form> tags for the ASP.NET server control
#DOTNETUSEPOSTBACKS	0	numeric	0: Do not use postbacks for the ASP.NET server control 1: Use postbacks for the ASP.NET server control
#USEAUTOCOMPLETE	0	numeric	0: Do not use autocomplete 1: Use autocomplete
#USEAUTOCOMPLETE_IMPORT	0	numeric	0: Do not use autocomplete include top x results from stats 1: Use autocomplete include top x results from stats log file
#AUTOCOMPLETE_IMPORTNUM	500	numeric	Number of search terms to import when using #USEAUTOCOMPLETE_IMPORT is enabled
#AUTOCOMPLETE_IMPORTURL	(absent)	string	URL of statistics log file for autocomplete include feature
#AUTOCOMPLETE_START	(absent)		Start of list of autocomplete entries
		string list	Contains a list of autocomplete entries, one entry per line
#AUTOCOMPLETE_END	(absent)		End of list of autocomplete entries
#USEPROXYSERVER	0	numeric	0: Do not use proxy server for spider mode 1: Use proxy server for spider mode crawling
#PROXYSERVER	(absent)	string	URL of proxy server

3.2 Example of a an actual Zoom Configuration File (using offline mode indexing)

```
__7_0
#STARTDIR:C:\Program Files\Apache Software Foundation\Apache2.2\htdocs\PassMark
#SPIDERURL:
#BASEURL:http://localhost
#OUTDIR:C:\Program Files\Apache Software Foundation\Apache2.2\cgi-bin\Zoom\Node0
#SPIDERURLTYPE:0
#SPIDERURLUSELIMIT:1
#SPIDERURLLIMIT:12345
#USE-CRC:1
#CURRENTMODE:0
#DLTHREADS:2
#NOCACHE:1
#BEEP-ON-FINISH:1
```

```
#OUTPUT:CGI
#OUTPUT_OS:0
#VERBOSE:0
#LOGOPTIONS:INDEXED|FILTERED|INIT|DOWNLOAD|UPLOAD|FILEIO|PLUGIN|INFO|ERROR|WARNING|SUMMARY|BROKEN|
#LOGWRITETOFILE:0
#LOGWRITETOFILENAME:C:\ProgramData\Wrensoft\Zoom Search Engine Indexer\indexlog.txt
#LOGDEBUGMODE:0
#SCAN_NOEXTENSION:1
#SCAN_FILELINKS:1
#SCAN_USELOCALDESCPATH:1
#SCAN_LOCALDESCPATH:C:\Documents and Settings\siongkim\Desktop\Desc files\
#INDEXOPTIONS:METADISC|CONTENT|TITLE|KEYWORDS|FILENAME|AUTHOR|LINKTEXT|ALTTEXT|
#RESULTOPTIONS:NUMBER|TITLE|METADISC|CONTEXT|TERMS|SCORE|DATE|URL|FILESIZE|
#USE-UTF8:0
#CODEPAGE:1252
#MAPACCENTS:
#ZLANGFILE:English.zlang
#SKIPUNDERScore:1
#MINWORDLEN:2
#FORMFORMAT:2
#HIGHLIGHTING:1
#GOTOHIGHLIGHT:1
#USEXML:1
#XMLTITLE:Zoom
#XMLDESC:Zoom Search Node
#XMLURL:www.wrensoft.com
#XML_OPENSEARCH_DESCURL:This is a Zoom Search Engine node
#LOGGING:1
#LOGGING_FILE:./logs/searchwords.log
#TIMING:1
#NOCHARSET:0
#DEFAULT_TO_AND:1
#CONTEXTSIZE:30
#EXACTPHRASE:500
#LINKTARGET:_blank
#SEARCHASSUBSTRING:1
```

```
#NO_TOLOWER:1
#ZOOMINFO:1
#USEDATETIME:1
#WORDJOINCHARS:.-_#$,:&\
#ZOOMIMAGE:0
#SPELLING:1
#SPELLINGWHENLESSTHAN:5
#WIZARD_UPLOADREQD:0
#REPORTUSEDATES:0
#WORDWEIGHT_TITLE:1
#WORDWEIGHT_DESC:0
#WORDWEIGHT_KEYWORDS:0
#WORDWEIGHT_FILENAME:0
#WORDWEIGHT_HEADINGS:0
#WORDWEIGHT_LINKTEXT:0
#WORDWEIGHT_DENSITY:1
#WORDWEIGHT_SHORTURLS:1
#USE-AUTH:0
#USE-COOKIES:0
#FTPINFO_START
192.168.0.2
21
```

```
Sites/Zoom5
#FTPINFO_END
#FTPNOTEMPLATE:1
#FTPRENAMETMP:1
#FTPUSEPASV:1
#BINUSEDESC:0
#PLUGIN_DESCFILES:IMAGE|
#PLUGIN_USEMETA:PDF|DOC|PPT|RTF|SWF|WPD|XLS|DJVU|IMAGE|MP3|DWF|
#PLUGIN_USETECHNICAL:MP3|IMAGE|DWF|
#PLUGIN_PDF_USEPASSWORD:1
#PLUGIN_PDF_METHOD:0
```

```
#PLUGIN_PDF_HIGHLIGHT:1
#PLUGIN_IMG_MINFILESIZE:5
#MAXPAGES_LIMIT:1000
#MAXWORDS_LIMIT:50000
#MAXFILESIZE_LIMIT:1048576
#DESCLENGTH_LIMIT:150
#MAXPAGES_PER_STARTPT_LIMIT:1000
#MAXWORDS_PER_PAGE_LIMIT:50000
#OPTIMIZE_SETTING:3
#EXTENSIONS_START
.htm|FILETYPE:0
.html|FILETYPE:0|IMGURL:http://my_html_thumb.com/icon_html.jpeg|THUMBSEXT:.jpg|THUMBSPATH:./
.php|FILETYPE:0
.asp|FILETYPE:0
.cfm|FILETYPE:0
.aspx|FILETYPE:0
.php3|FILETYPE:0
.php4|FILETYPE:0
.txt|FILETYPE:0|USETHUMBS|THUMBSEXT:.png|THUMBSPATH:./
.jpg|FILETYPE:12|USETHUMBS|THUMBSEXT:.jpg|THUMBSPATH:./images|THUMBSPREFIX:Pre_|THUMBSPOSTFIX:_Post
.doc|FILETYPE:4
.pdf|THUMBSEXT:.jpg|THUMBSPATH:./
.ppt|FILETYPE:6
.png|FILETYPE:12
.gif|FILETYPE:12
.jpeg|FILETYPE:12
#EXTENSIONS_END
#SKIPPAGES_START
#SKIPPAGES_END
#SKIPWORDS_START
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#SKIPWORDS_END
#USECATS:1
#USEDEFCATNAME:1
#SEARCHMULTICATS:1
#CATEGORIES_START
Misc.
Linux
linux
Linux match|0|
Products
product
Product match|1|
Test
test

Test match|0|
Burn In
burnin
BurnIn match|0|
#CATEGORIES_END
#SYNONYMS_START:
eat,makan
food,makan
#SYNONYMS_END
#RECOMMENDED_START:
bbc
www.bbc.co.uk
BBC News
Latest news from BBC

forum
www.passmark.com/forum
PassMark Forum

#RECOMMENDED_END
#RECOMMENDED_MAX:3
#USEFILTER:1
#FILTER_START
#FILTER_END
#SITEMAP_TXT:0
#SITEMAP_XML:0
#SITEMAP_UPLOAD:1
#SITEMAP_UPLOADPATH:sitemap
#SITEMAP_USEPAGEBOOST:1
#SITEMAP_BASEURL:http://localhost

4.0 KEY FOR PASSWORD ENCODING/DECODING

Passwords are encoded in Zoom's configuration file to prevent plain text retrieval. But this is not intended to be secured. To read or generate these encoded data, you program needs to encode/decode them by XORing (exclusive OR) every character with a key. The value of the key is 83135019 (hexadecimal 0x4F48A2B). Remember that files need to be written/read using UTF-16LE encoding. You can use a scheme similar to the following:

4.1 Encoding password before saving it in the configuration file

```
//      C-style
//=====
extern  char*   password;           // Password is defined somewhere and is a string
                                           // This is where the user password is stored
#define AUTHXORKEY          83135019 // Password XOR key
#define MAX_PASSWORD_LENGTH 256      // Maximum length of password (this is for demo purposes)

char    encoded[MAX_PASSWORD_LENGTH]; // To store the encoded password

for (int i=0; i<strlen(password); i++) // We encode for every character of the password
{
    encoded[i] = password[i] ^ AUTHXORKEY; // XOR the password with the key to get the encoded password
    fprintf(config_fp, "%C", encoded[i]); // Write encoded character to configuration file
}
```

4.2 Decoding password after reading it in from configuration file

```
//      C-style
//=====
extern  char*   encoded;                // Encoded password is defined somewhere and is a string
                                           // This is where the encoded password is stored (from reading the configuration file)
#define AUTHXORKEY 83135019            // Password XOR key
#define MAX_PASSWORD_LENGTH 256        // Maximum length of password (this is for demo purposes)

char    password[MAX_PASSWORD_LENGTH]; // To store the decoded password

for (int i=0; i<strlen(encoded); i++)   // We decode for every character of the encoded password
    password [i] = encoded [i] ^ AUTHXORKEY; // XOR the encoded password with the key to get the decoded password
```

5.0 INTELLECTUAL PROPERTY RIGHTS

Wrensoft will retain all ownership and intellectual property rights for the Zoom application and all software developed under this agreement.

6.0 CONTACT DETAILS

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