

VX Search

FILE SEARCH SOLUTION



User Manual

Version 18.2

Jun 2026

www.vxsearch.com

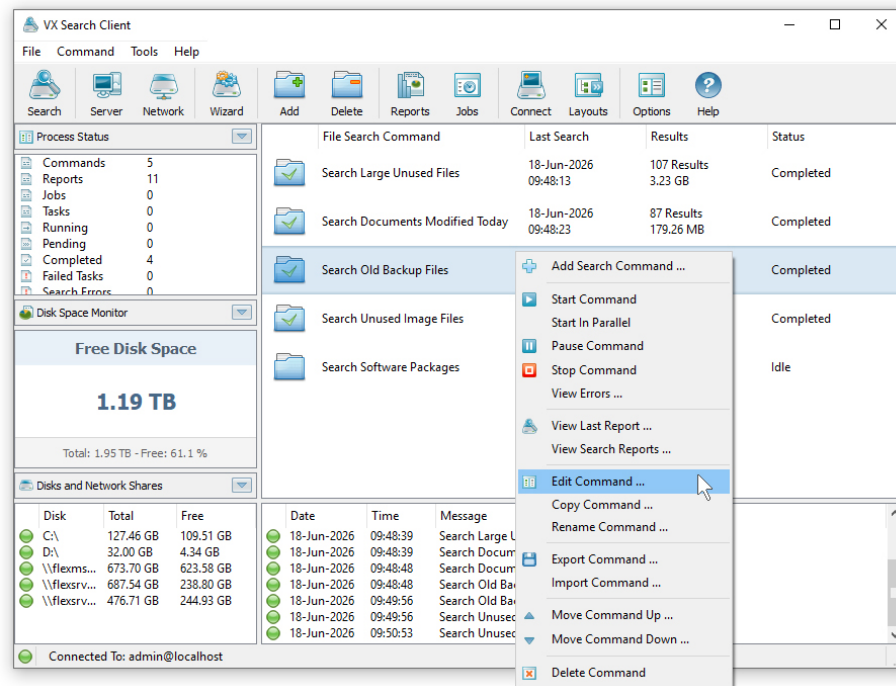
info@flexense.com

Flexense Ltd.

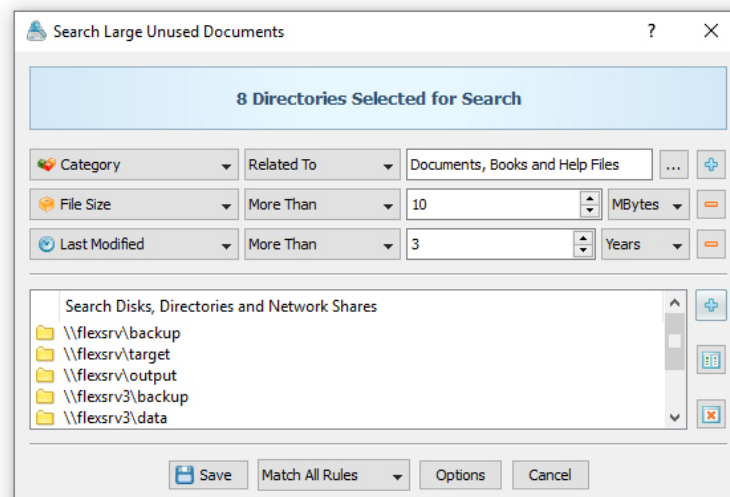
1	Product Overview.....	3
2	VX Search Product Versions.....	7
3	Product Installation Procedure	8
4	VX Search Server GUI application	9
5	VX Search Reports Database	10
6	Search Files in Disks, Directories and Network Shares	11
7	Search Files by File Type.....	12
8	Search Files by File Name	13
9	Search Files by File Size.....	14
10	Search Files by File Creation, Modification or Access Date	15
11	Search Files by Creation, Modification or Access Time	16
12	Search Files by Text Patterns.....	17
13	Search Files by Binary Patterns.....	18
14	Search Files by File Attributes.....	19
15	Search Files by User Name	20
16	Searching Files by User Group	21
17	Searching Programs by Version Information	22
18	Searching JPEG images by EXIF tags	22
19	Searching Files Using Regular Expressions	23
20	Searching Files by the File Name Length	24
21	Searching Files by the File System Depth.....	24
22	Searching Directories	25
23	Using Multi-Level File Search Rules.....	26
24	Integrating VX Search with External Tools.....	27
25	Categorizing and Filtering File Search Results	28
26	File Search Statistics and Pie Charts	30
27	Showing File Search Results User Names	34
28	Categorizing and Filtering File Search Results by User Name	35
29	Performing File Management Operations	36
30	Saving File Search Reports.....	37
31	Saving Graphical PDF Reports.....	39
32	Customizing File Search Reports	40
33	Exporting File Search Results to an SQL Database.....	41
34	Searching Network Shares Using UNC Path Names	42
35	Searching Files in One or More Servers	43
36	Searching Files in All Servers on the Network	44
37	VX Search Server Service Configuration.....	45
38	Multi-Threaded File Search and Performance Options.....	46
39	Managing File Classification Plug-ins	50
40	Advanced File Search Options	51
41	Excluding Subdirectories from File Search	52
42	Excluding Specific Files from File Search	53
43	Automatic Report Generation.....	54
44	Sending E-Mail Notifications	55
45	Batch File Search Operations	56
46	Using Built-In Disk Space Monitor	57
47	Web Based Management Interface	59
48	VX Search Server Command Line Utility.....	60
49	Updating VX Search Server	62
50	Registering VX Search Server	63
51	Supported Operating Systems	64
52	System Requirements.....	64

1 Product Overview

VX Search is an automated, rule-based file search solution allowing one to search files by the file type, category, extension, file name, file size, location, creation, modification and last access dates, regular expressions, file attributes, user name, user group, user domain, group domain, security permissions, binary and text patterns, hash signature, file name length, file name depth, file links, JPEG EXIF tags, etc.

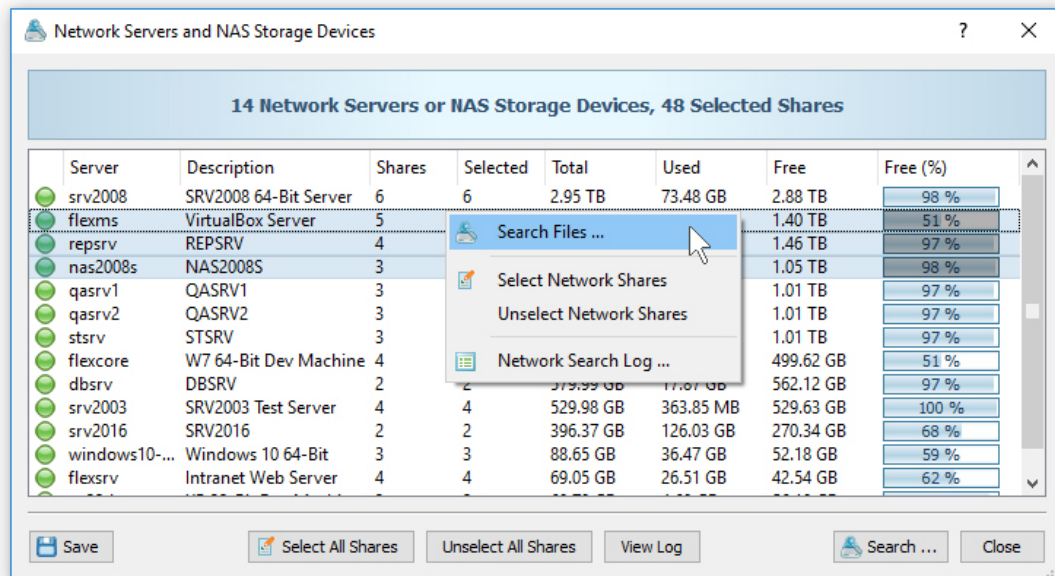


The user is provided with the ability to categorize and filter file search results, perform file management operations, generate various types of pie and bars charts, save reports to a number of standard formats such as HTML, PDF, Excel, text, JSON, CSV, XML and export file search results to an SQL database.

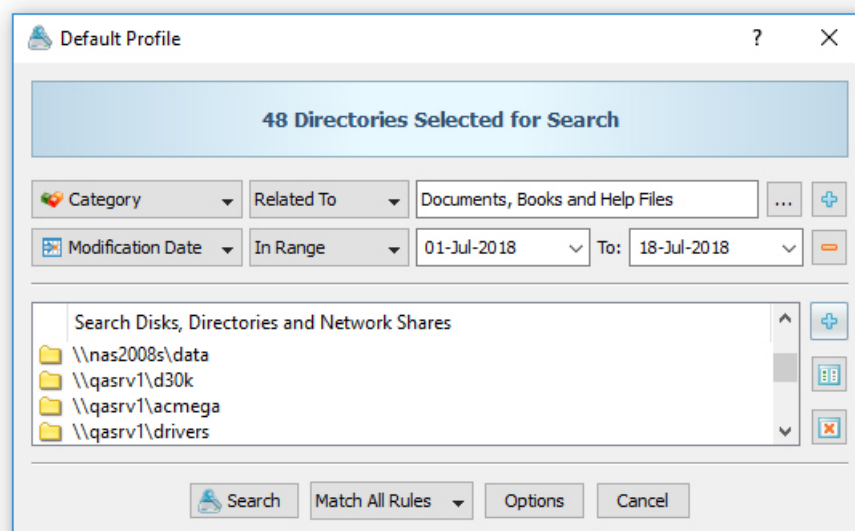


IT administrators are provided with advanced file search capabilities including the ability to search files in multiple servers and/or NAS storage devices simultaneously, periodic file search operations, automatic report generation, conditional file search actions allowing one to send E-Mail notifications and/or execute custom commands when a file search operation finds a user-specified number of files.

VX Search allows one to scan the network, discover network servers and NAS storage devices, automatically detect all accessible network shares and search files in hundreds of network servers and NAS storage devices. In addition, the user is provided with the ability to export the list of detected servers and NAS storage devices (including lists of network shares for each server) into HTML, PDF, Excel, text, JSON, XML and CSV reports.



In order to search files in one or more servers or NAS storage devices, press the 'Network' button located on the main toolbar and wait while VX Search will scan the network and show a list of detected network servers and NAS storage devices. On the network servers and NAS storage devices dialog, select the required servers and press the 'Search' button.



VX Search will show all network shares hosted on the selected servers and NAS storage devices allowing one to search files and save various types of file search reports and charts. In addition, VX Search provides a large number of advanced file search options allowing one to tune and customize file search operations for user specific needs and hardware configurations.

In addition to the VX Search GUI application, the user is provided with a command line utility, which can be used to execute pre-configured file search operations and integrated into user-custom shell scripts and batch files. The VX Search command line utility may be used to execute file search operations locally or control file search operations in one or more VX Search Servers via the network.

```

c:\Program Files\VX Search Ultimate\bin>vxsearch -search *.jpg -dir "C:\Program Files"

VX Search Version 11.0.26 (Jul 17 2018)

Operation Successfully Completed

Date                - 2018/07/18
Time                - 12:14:16
Results             - 6
Disk Space          - 82.90 KB
Total Dirs          - 467
Total Files         - 2564
Total Space         - 1.03 GB
Performance         - 11708 Files/Sec
Process Time        - 219 ms.
Command Name        - File Search
Host Name           - Windows10-64
User Name           - alex-s
Input Dirs          - c:\program files

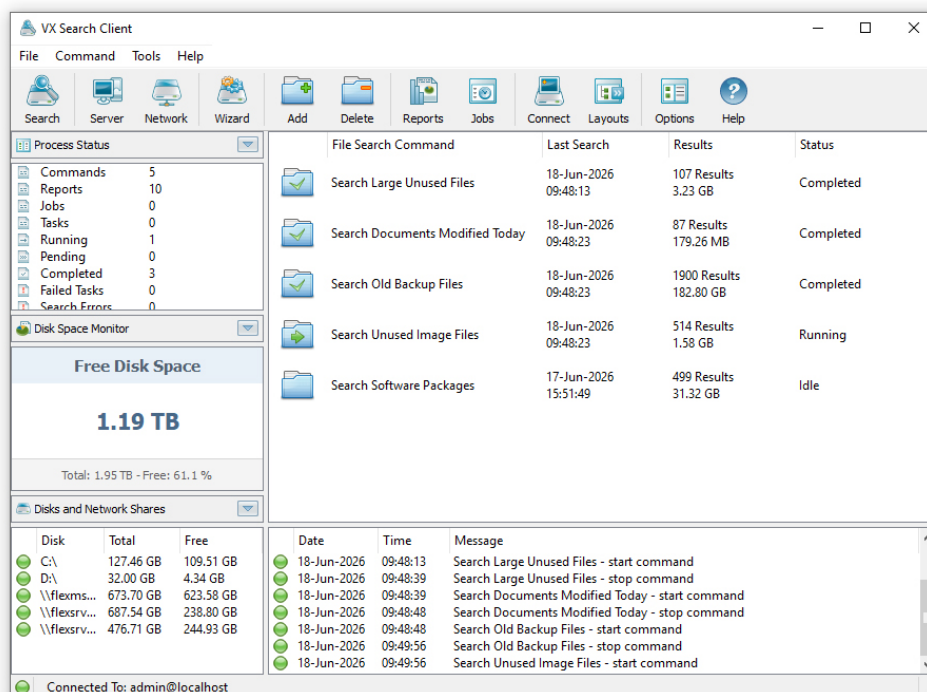
Search Results:

C:\program files\MySQL\MySQL Server 5.1\loginhdr.jpg
C:\program files\Windows Media Player\Media Renderer\DMR_120.jpg
C:\program files\Windows Media Player\Media Renderer\DMR_48.jpg
C:\program files\Windows Media Player\Network Sharing\wmpnss_color120.jpg
C:\program files\Windows Media Player\Network Sharing\wmpnss_color32.jpg
C:\program files\Windows Media Player\Network Sharing\wmpnss_color48.jpg

c:\Program Files\VX Search Ultimate\bin>

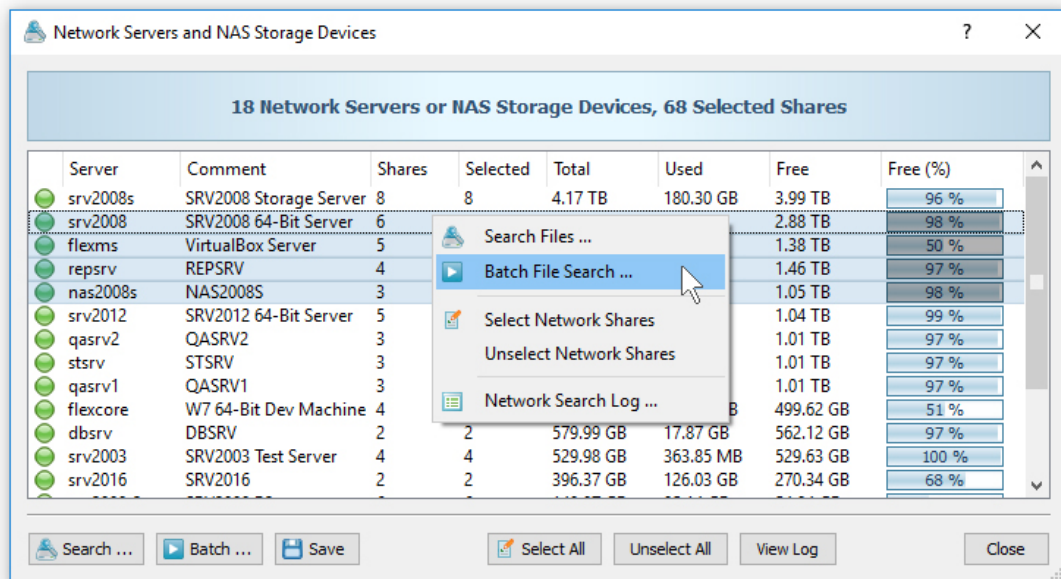
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IT and storage administrators are provided with the server product version, which runs in the background as a service and provides the ability to perform fully-automated, periodic file search operations, generate various types of file search reports, analyze file search results and execute conditional actions based on user-defined rules and policies.

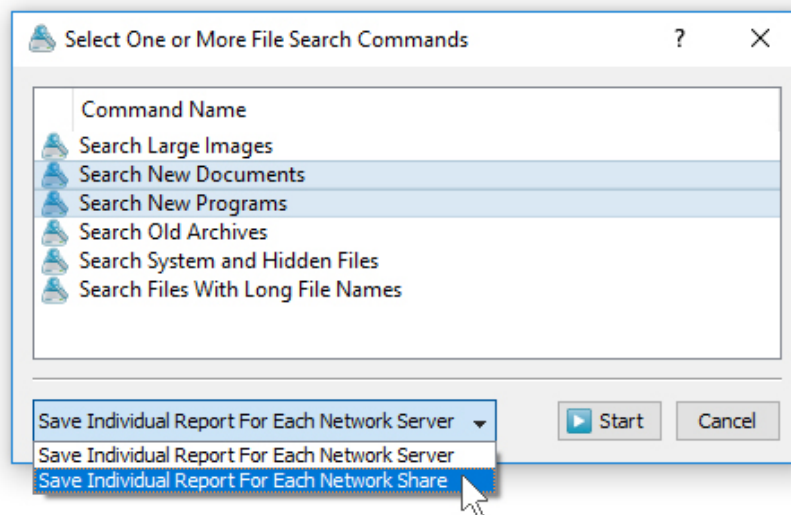


VX Search Server may be controlled using a full-scale client GUI application and the command line utility, which provides the ability to perform file search operations, review results and save reports locally and through the network. Finally, enterprise customers are provided with VX Search Enterprise - a server-based product version allowing one to perform search operations, review results and save reports using a regular web browser locally or through the network.

VX Search Server and VX Search Enterprise provide the ability to scan the network, detect all network servers and NAS storage devices, execute one or more pre-configured file search commands on hundreds of network servers and NAS storage devices and generate an individual file search report for each network server, NAS storage device or network share.



In the simplest case, just press the 'Network' button located on the main toolbar, search all network servers and NAS storage devices on the network, select one or more servers, press the right mouse button and select the 'Batch File Search' menu item. VX Search will show a list of pre-configured file search commands allowing one to select one or more commands to be executed on all selected network servers and NAS storage devices.



Depending on the selected configuration, VX Search Server will save in the built-in reports database an individual file search report for each network server, NAS storage device or network share. Once the batch file search operation is completed, the user will be provided with the ability to open saved file search reports, review file search results, generate various types of pie charts and export reports to a number of standard formats including HTML, PDF, text, Excel CSV and XML.

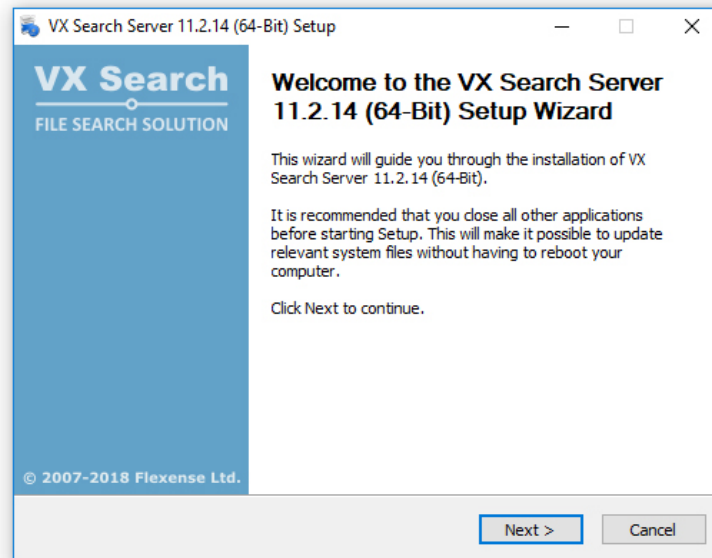
2 VX Search Product Versions

Features	Server	Enterprise
Maximum Amount of Disk Space	100 TB	Unlimited
Maximum Number of Files	100 M	Unlimited
Maximum Number of Input Directories	100	Unlimited
Maximum Number of Search Profiles	100	Unlimited
Support for Unicode File Names	Yes	Yes
Support for Long File Names	Yes	Yes
Support for UNC Network Path Names	Yes	Yes
File Management Operations on Results	Yes	Yes
HTML, PDF, Excel, Text and CSV Reports	Yes	Yes
Multi-Threaded File Search	Yes	Yes
Support for System Tray Icon	Yes	Yes
Multiple Types of File Search Rules	Yes	Yes
Support for ACLs and Security Attributes	Yes	Yes
Multi-Level File Search Rules	Yes	Yes
SQL Database Integration	Yes	Yes
Automatic Report Generation	Yes	Yes
Conditional File Search Actions	Yes	Yes
Command Line Utility	Yes	Yes
Runs in the Background as a Service	Yes	Yes
Periodic File Search Operations	Yes	Yes
Built-In Disk Space Monitor	Yes	Yes
Consolidated Statistics Reports	x	Yes
Batch File Search Operations	x	Yes
Web-Based Management Interface	x	Yes
Support For Multi-User Configurations	x	Yes
OS Native User Authentication	x	Yes
OEM Product Version	x	Yes
License	\$250	\$450

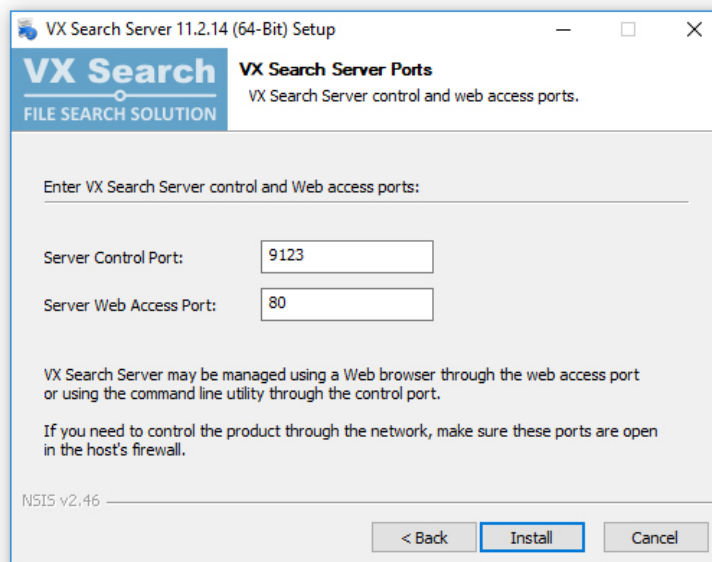
* Prices, product features and license terms are subject to change without notice.

3 Product Installation Procedure

VX Search Server is especially designed to be as simple as possible. The product does not require any third-party software applications and may be installed and configured within a couple of minutes. A fully functional 30-days trial version of VX Search Server may be downloaded from the following page: <https://www.vxsearch.com/downloads.html>.



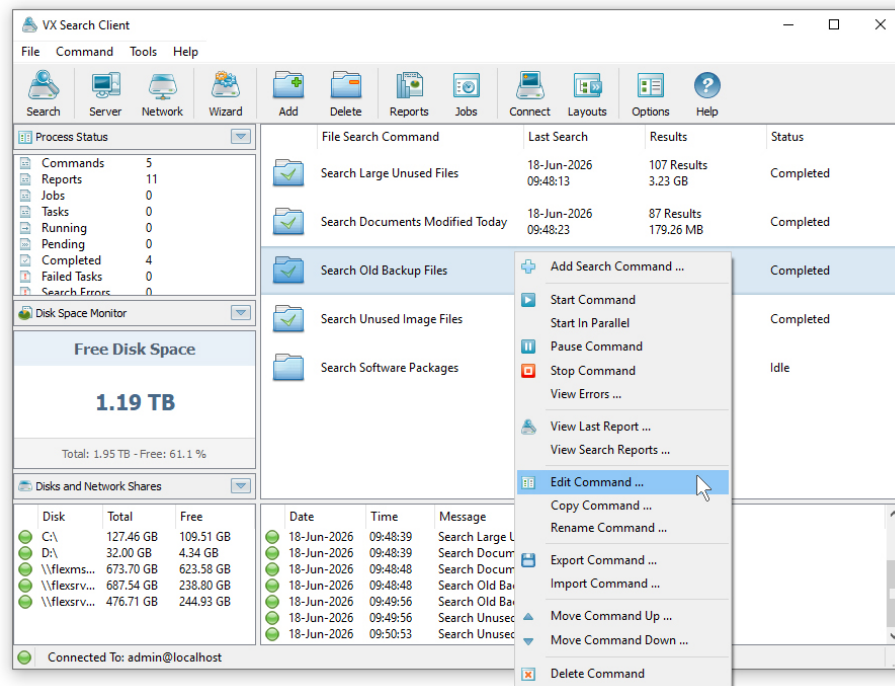
The installation package is very small, approximately 15 MB depending on the target operating system, and the product requires just 100 MB of the free disk space on the target server. In order to install VX Search Server, start the setup program, select a destination directory and press the 'Next' button.



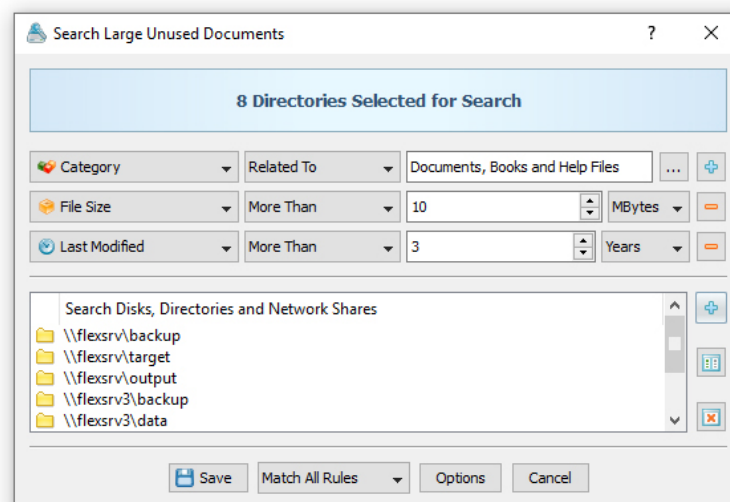
Optionally, enter custom server control and/or web access ports. The server control port is used by the VX Search command line utility and the web access port is the port for the web-based management interface allowing one to control VX Search Server using a standard web browser. If VX Search Server should be controlled remotely through the network, make sure one or both of these ports are open in the server's firewall.

4 VX Search Server GUI application

VX Search Server provides a full-scale client GUI application, which can be used to control one or more VX Search servers locally or via the network. The client GUI application allows one to perform file search operations, review file search results, schedule periodic file search operations, save file search reports and export file search results to an SQL database.



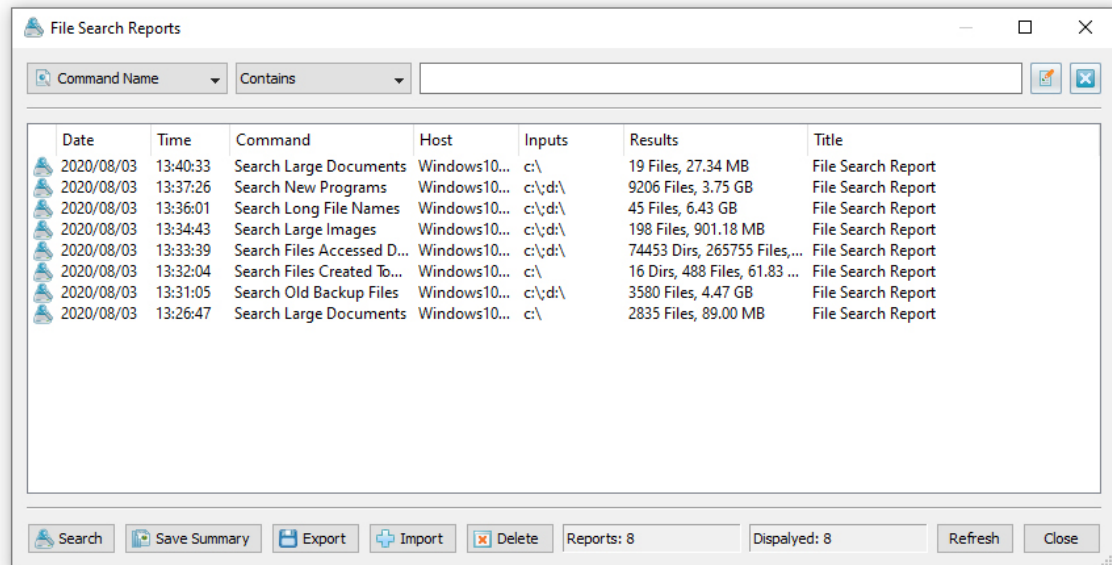
In order to perform a simple file search operation, press the 'Search' button located on the main toolbar, add one or more file matching rules and specify disks, directories and/or network shares to search in. For advanced file search options, press the 'Options' button located on the file search command dialog.



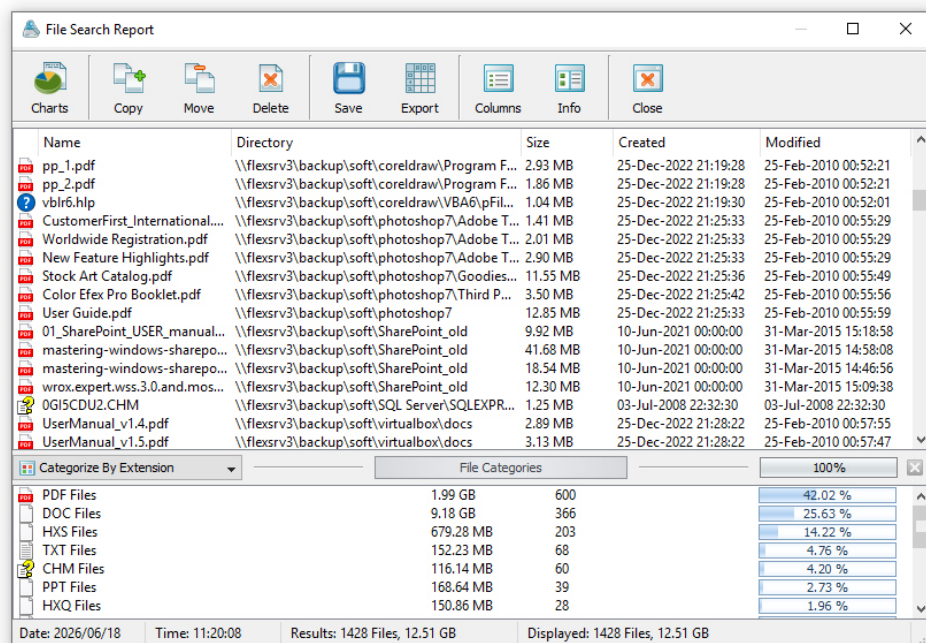
VX Search Server allows one to pre-configure sophisticated file search operations as user-defined file search commands and then execute these search commands in a single mouse click or schedule periodic file search operations, automatically generate various types of file search reports and/or setup conditional E-Mail notifications or custom file search actions executed when a user-defined search command finds a user-specified number of results.

5 VX Search Reports Database

For each performed file search operation, VX Search Server automatically saves a file search report in the reports database. In order to open the last report, just click on the required file search command link displayed on the VX Search Server home page. In order to browse all reports, press the Reports' button located on the main toolbar.



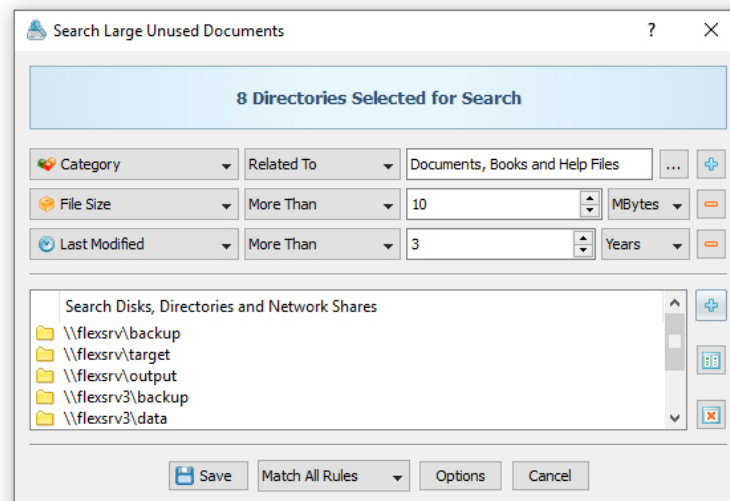
VX Search Server allows one to filter file search reports by the search command name, host name, date and input directories. In order to filter search reports, select an appropriate filter located on the bottom side of the reports dialog and then select a filter value.



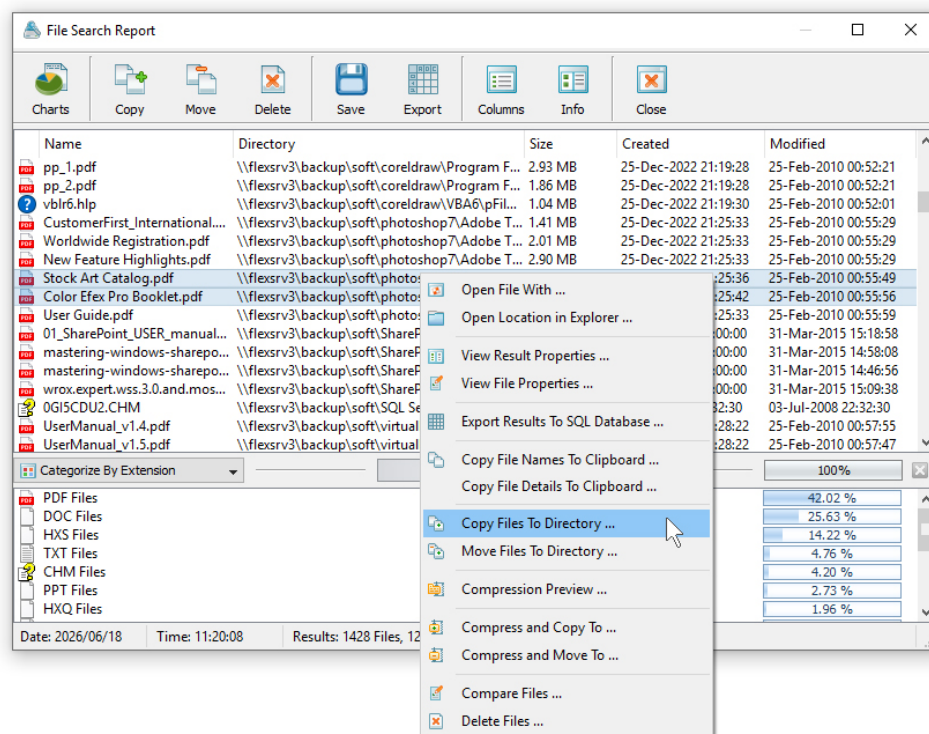
When a report filter is active, VX Search Server displays the number of filtered reports on the reports dialog and shows the file search reports matching the selected report filter in the reports view. In order to reset the currently selected report filter, press the 'Clear Filter' button located on the right side of the reports dialog.

6 Search Files in Disks, Directories and Network Shares

VX Search provides multiple ways to search files ranging from simple file name wildcards to complex sets of multi-level file matching rules capable of searching files using multiple criteria combined with logical operators. In the simplest, case press the 'Search' button located on the main toolbar, enter a file name wildcard and one or more disks or directories to search in.



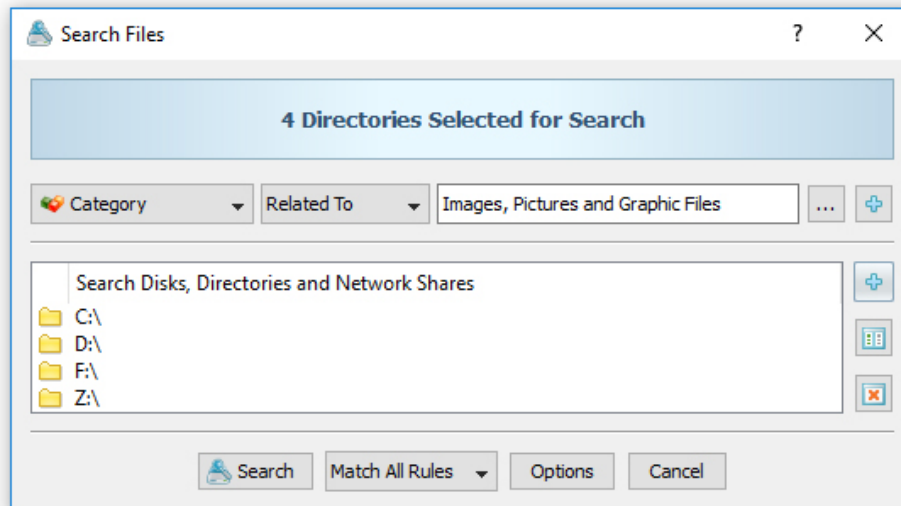
For more advanced search capabilities, press the 'Advanced Search' button, add one or more file matching rules and select an appropriate logical operator. VX Search provides a large number of file matching rules capable of searching files by the file type, category, file name, extension, location, size, creation, modification and last access dates, user name, file attributes, JPEG EXIF tags, etc.



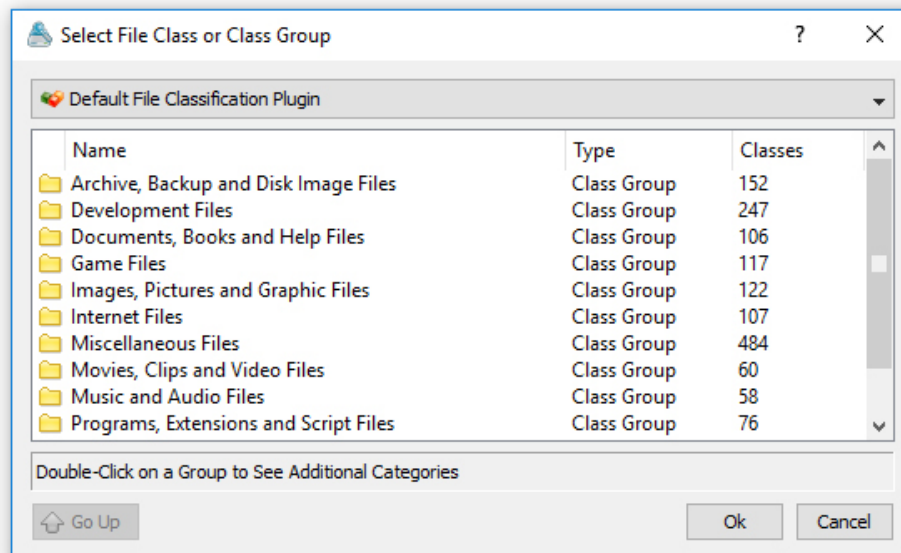
Once finished adding file matching rules, press the 'Search' button to start the search operation. The main VX Search GUI application shows file search results and allows one to categorize and filter results, export reports, generate pie and bars charts and much more.

7 Search Files by File Type

One of the most powerful capabilities of VX Search is the ability to search files by the file type or category using an extensive set of file classification plug-ins capable of recognizing more than 3,500 types of files. In order to search files related to a category, select the 'Search Files Categorized As' file matching rule and press the 'Select' button to select an appropriate file category.



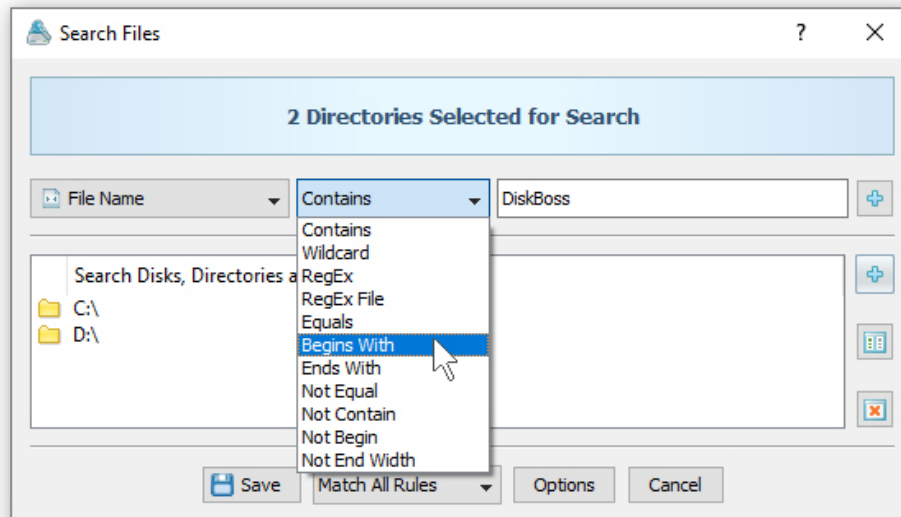
All file categories are organized into a logical hierarchy with multiple subcategories, groups and file classes. Select a file classification plug-in and browse the hierarchy of file categories to select an appropriate file type. For example, select the 'Images, Pictures and Graphic Files' category to find all types of images and picture files. This is especially useful when the user needs to find multiple types of files, but does not know all the required file extensions.



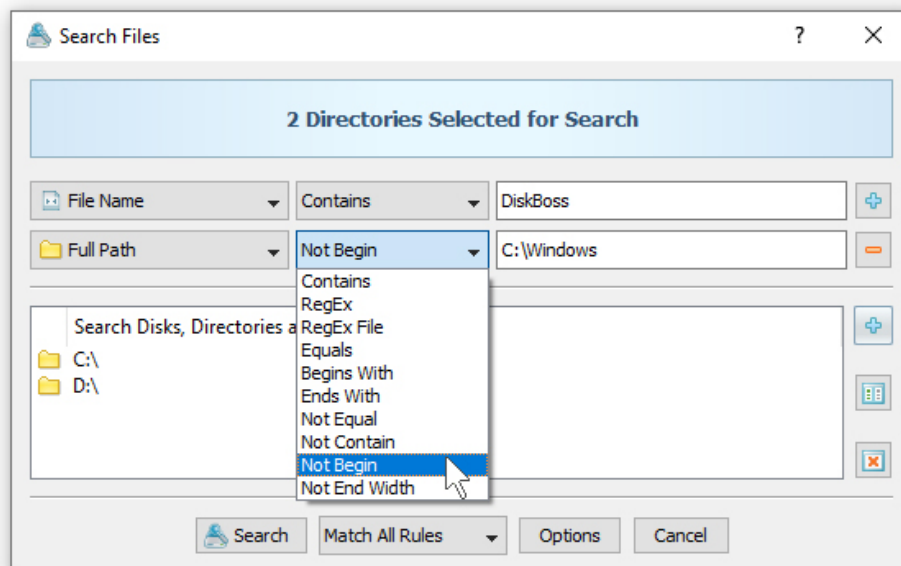
If the selected file category contains a number of subcategories, files related to any of the selected subcategories will be displayed in the search results. A number of file categories may be added using multiple file matching rules combined with a logical (AND, OR) operator. Finally, power computer users and IT administrators may design custom file classification plug-ins with user-specific file categories and hierarchies using a simple XML-based format and use these custom file categories in file search operations.

8 Search Files by File Name

VX Search allows one to search files by the file name, location, extension, full file name including the full path, the name of the directory without the path and file name and the file name without extension. There are a number of positive and negative pattern matching operators providing the user with the ability to match text patterns located at different places of the file name and allowing one to define precise file matching rules.



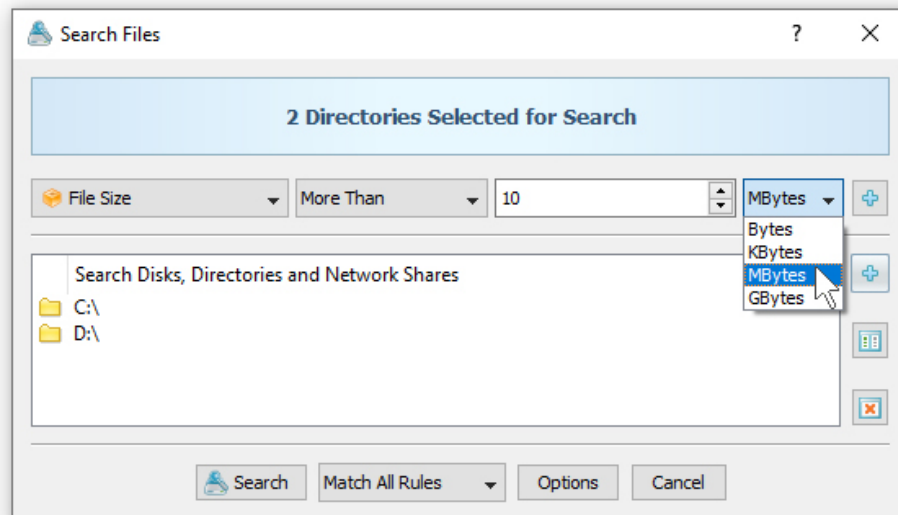
For example, in order to search files containing a specific text in the file name, select the 'File Name' file search rule, set the file search operator to 'Contains' and enter a text string to search for. There are two types of file search operators: positive and negative. Positive operators will include the matching files in the search results and the negative operators will exclude the matching files from the search results.



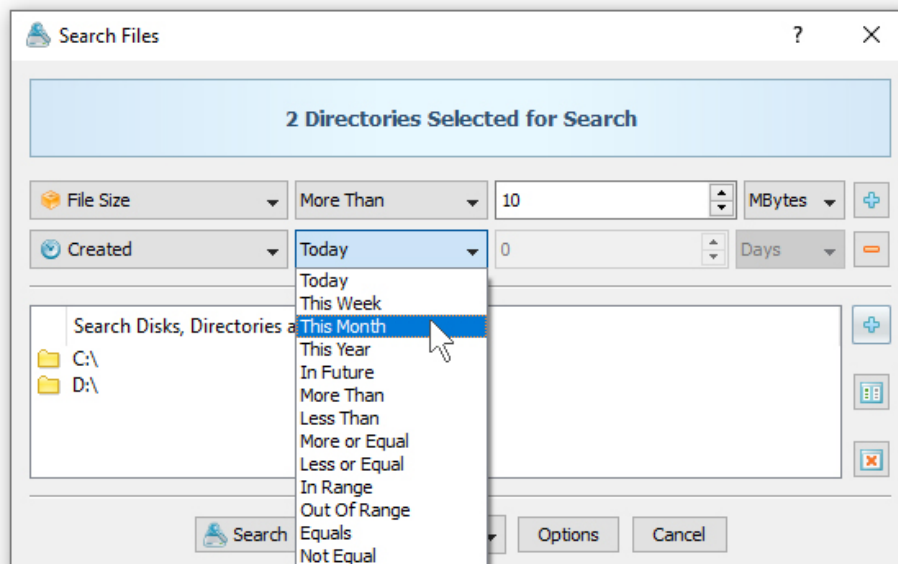
For example, in order to find files containing a specific text in the file name, but exclude all files located in the 'Windows' directory, add the 'Full Path' file search rule, set the file search operator to 'Not Begin' and enter the 'C:\Windows' text as the search pattern.

9 Search Files by File Size

The user is provided with the ability to search files by the file size using multiple comparison operators and size units. This file matching rule is very useful when combined with file categories and/or file creation, modification or last access dates to search files matching multiple different criteria.



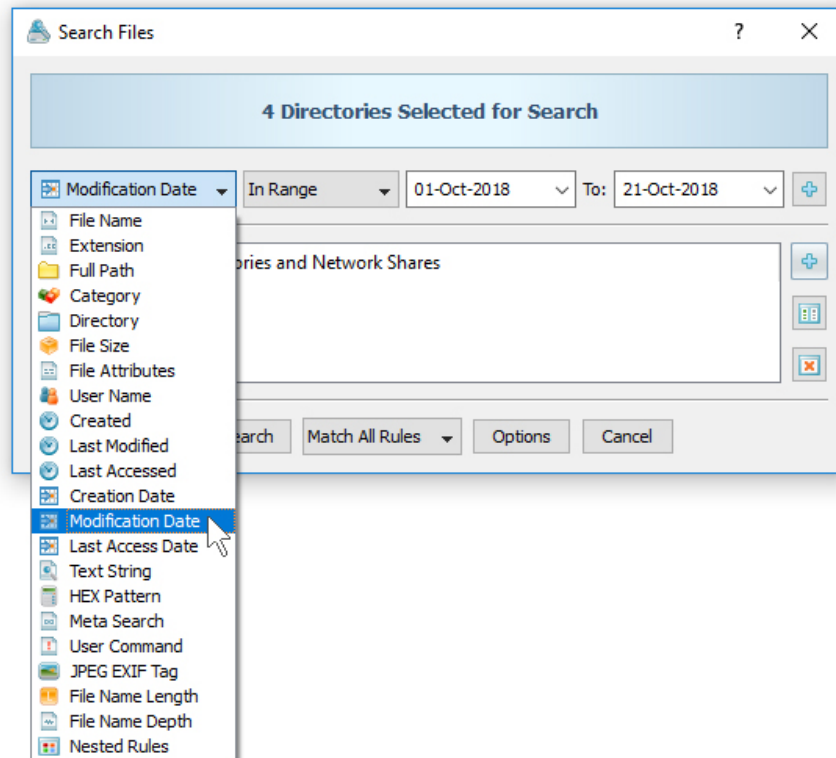
For example, in order to search files larger than 10 MB, add the 'File Size' file search rule, set the file search operator to 'More Than' and set the value to 10 MB. The size-based file matching rule may be combined with other types of file matching rules allowing one to find files exactly matching user needs and requirements.



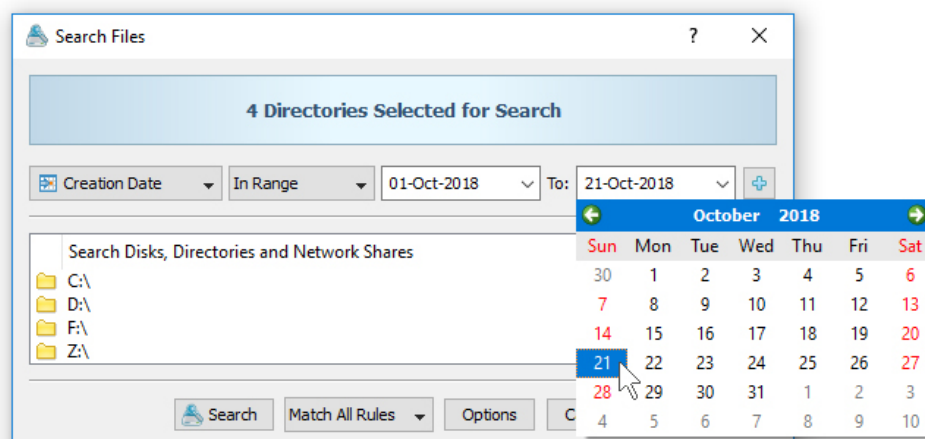
For example, in order to find all large files that were created today or during the last week or month, add the 'Created' file search rule and then select an appropriate date matching operator or date range. In a similar way, the user can configure file search rules matching files modified or last accessed during a specific period of time.

10 Search Files by File Creation, Modification or Access Date

VX Search provides a set of file matching rules allowing one to search files by the creation, modification and last access dates. The set of date-based file matching rules provides the ability to search files created, last modified or last accessed on a specific date, older or newer than a specific date. In addition, the user is provided with the ability to search files created, last modified or last accessed between user-specified dates.



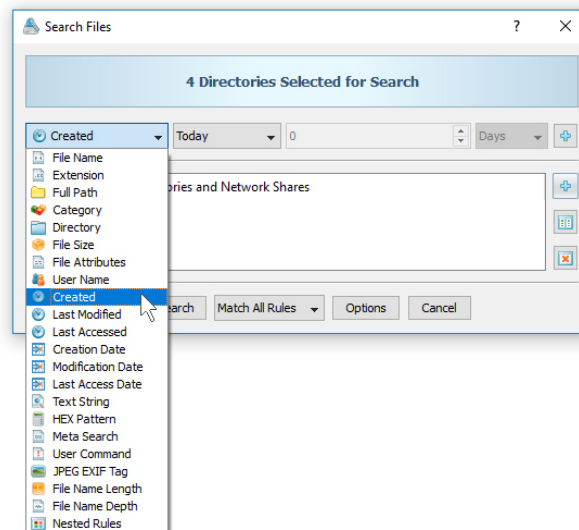
For example, in order to search files which were created before 1-Jan-2016, set the file search rule type to 'Creation Date', set the operator to 'Older Than' and set the date to 1-Jan-2016. In a similar way, the user can search files that were created before the specified date or exactly on the user-specified date.



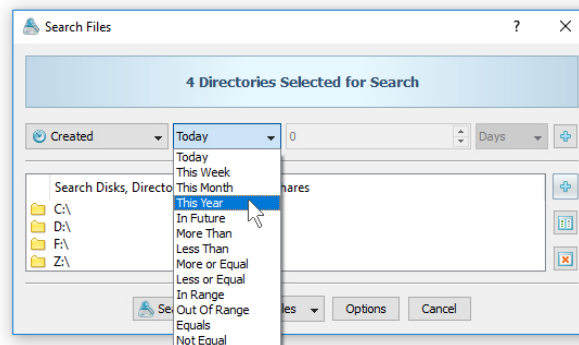
Finally, the user is provided with the ability to search files created, last modified or last accessed within a user-specified range of dates. For example, in order to search files that were created between two dates, set the rule operator to 'Creation Date', set the operator to 'In Range', enter the start date and enter the end date.

11 Search Files by Creation, Modification or Access Time

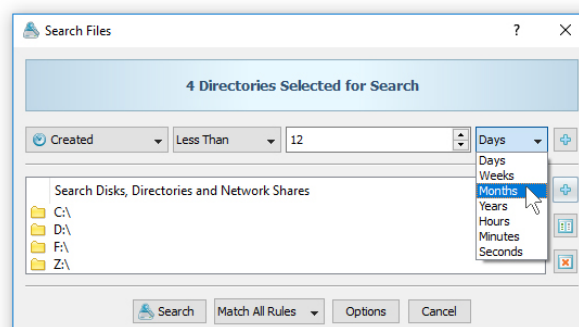
In addition to the file matching rules capable of searching files by user-specified dates, VX Search provides an additional set of file matching rules allowing one to search files by relative periods of time. For example, the user can search files that were created, last modified or last accessed during the last X years, months, days, hours, minutes or seconds.



The relative time-based rules are useful when the user needs stable periods of time not changing and keeping valid as the time passes by. For example, a file matching rule searching files that were modified during the last 7 days is always valid disregarding of the current date.

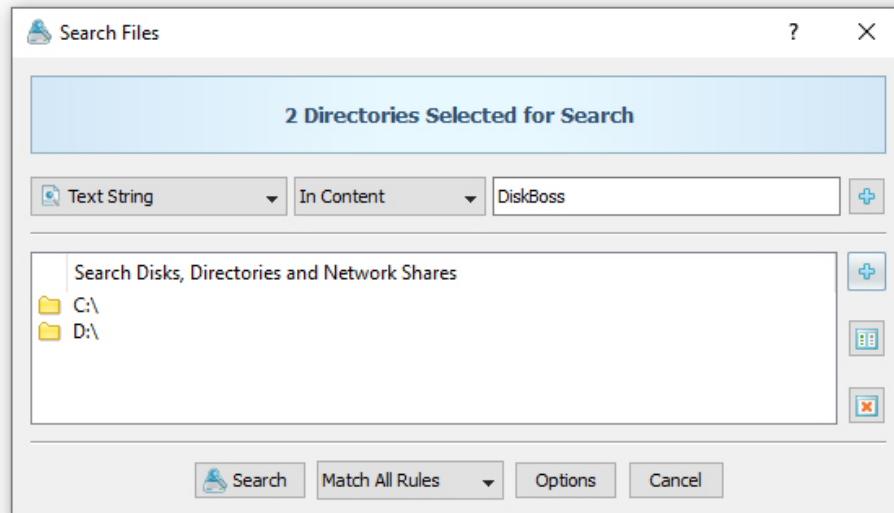


The time-based file matching rules provide a number of pre-configured operators allowing one to search files that were created, last modified or last accessed today, during this week, during this month or during this year. In addition, there are a number of standard comparison operators and time range operators. Finally, the user is provided with the ability to search files with the creation, last modification or last access timestamps set to a future time.

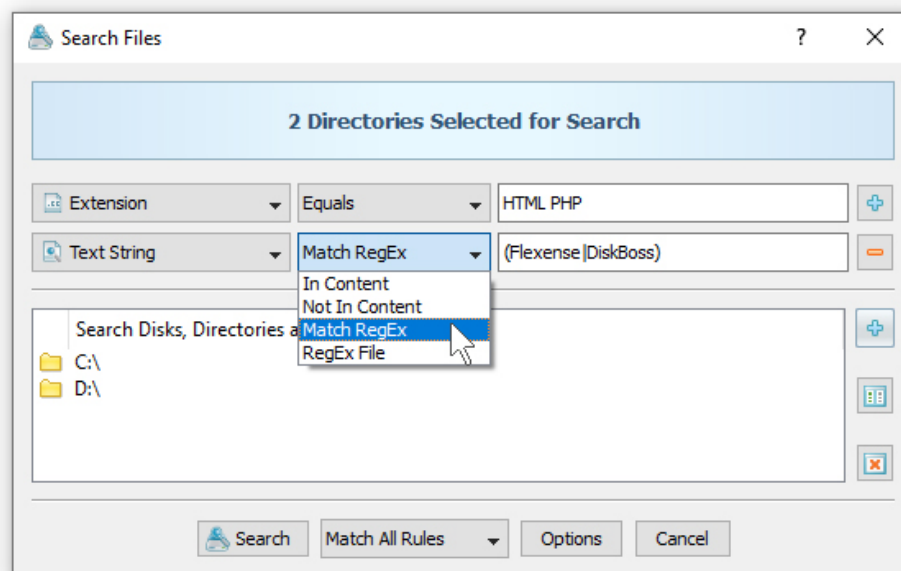


12 Search Files by Text Patterns

VX Search provides a file search rule capable of searching files containing or not containing a user-specified text pattern. In order to match files by a text string, add the 'Text String' file search rule, select an appropriate text matching operator and enter a text string to search for.



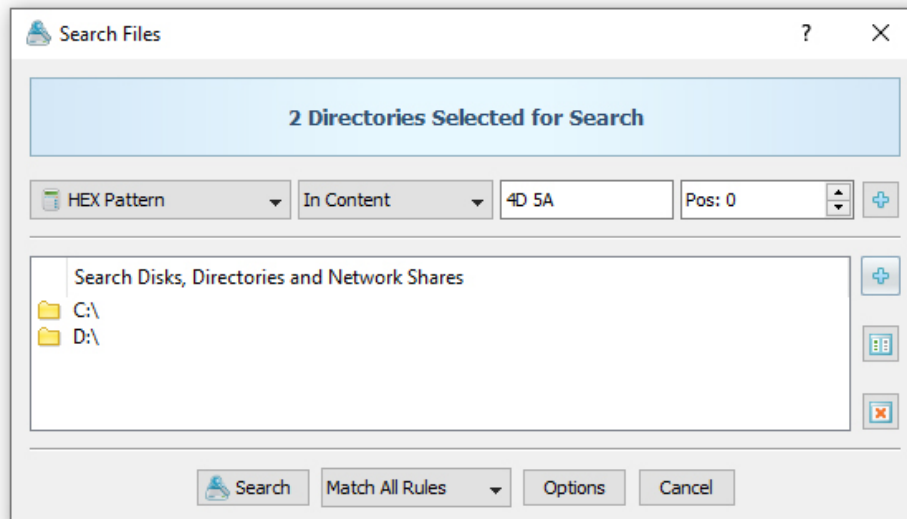
Many types of files, such as binary files, images or videos, do not contain textual information and it is a good idea to exclude such files from the file search process in order to improve the performance of the file search operations. The best approach is to set the first file search rule to limit the file search operation to types of files containing textual information and one or more additional file search rules to actually perform the search inside of the specified types of files.



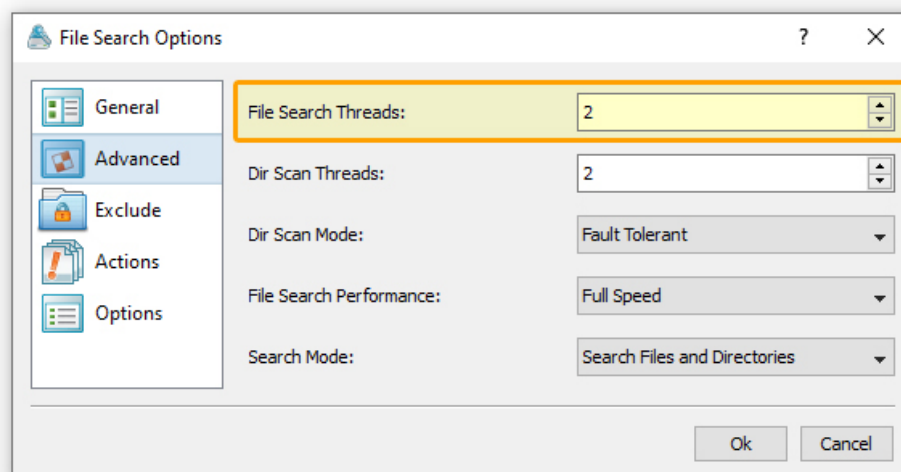
For example, in order to search a text string in all HTML and PHP files, set the first file search rule to match the HTML or PHP file extensions and then add one more file search rule to search a text string in the contents of HTML and PHP files. In this case, all other types of files will be excluded from the file search process and the file search operation will be significantly faster especially when searching inside of files via the network.

13 Search Files by Binary Patterns

Power computer users and IT administrators are provided with a binary file search rule, which is capable of searching files by binary HEX patterns located at specific places inside of files. In order to add a binary file search rule, add the 'HEX Pattern' file search rule, select an appropriate pattern matching operator, enter the HEX pattern to search for and enter the position inside of the file where the binary pattern should be located.



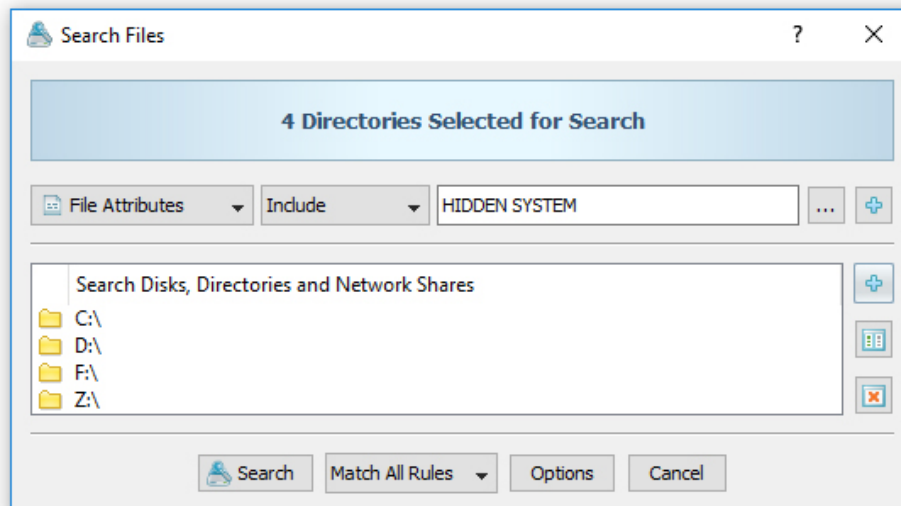
The HEX pattern should be specified as a list of bytes in the hexadecimal format with each byte represented by two hexadecimal characters delimited by the space character. The position of the HEX pattern should be specified as an absolute offset from the beginning of the file. For example, in order to find all executable files, including files with intentionally changed file extensions, add the 'HEX Pattern' file search rule, set the HEX pattern to '4D 5A' and set the pattern position to zero.



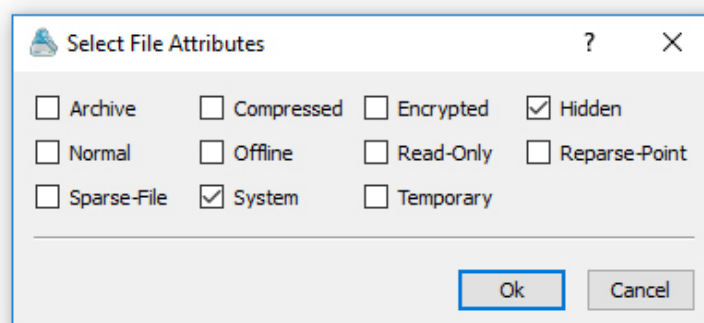
The binary file search is a time consuming operation especially when searching files via the network. In order to improve the performance of the binary file search operations, open the file search command options dialog, select the 'Advanced' tab and increase the number of the file search threads to the number of CPUs in the computer. The binary pattern file matching rule is very useful when the user needs to detect specific file formats containing format-specific signature patterns at designated positions. Multiple binary pattern rules may be combined with logical operators to detect files containing multiple patterns at different positions.

14 Search Files by File Attributes

Sometimes, it may be required to search files by file attributes. For these purposes, VX Search provides the file attributes file matching rule. Select the 'Search Files With the File Attributes' file matching rule, select an appropriate attribute matching operator and press the 'Select' button to select the attributes to be checked.



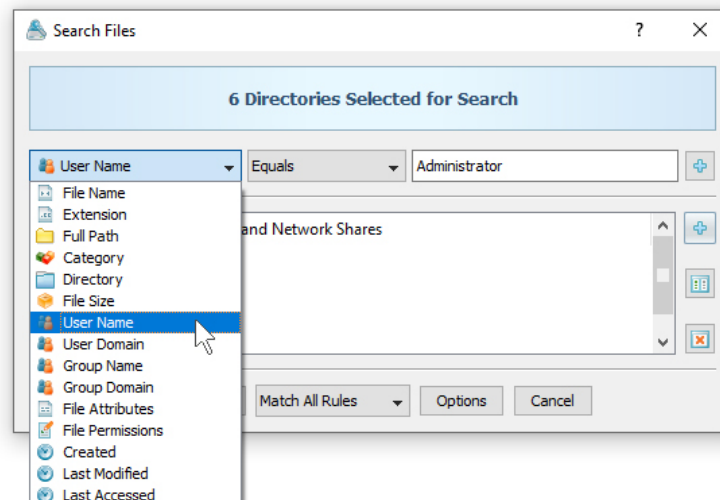
On the attributes select dialog, check all the attributes that should be tested and press the 'Ok' button. When the operator is set to 'Having Attributes', VX Search will search files having all the selected file attributes. Otherwise, VX Search will search files having none of the selected file attributes.



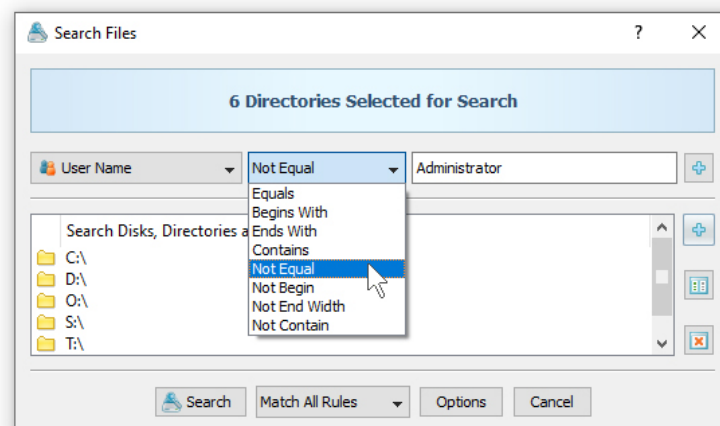
The negative operator is especially useful when the user needs to find all files related to a specific file category, but skip all protected system and hidden files. The attributes file matching rule may be combined with other types of file matching rules allowing one to precisely select the required files.

15 Search Files by User Name

Advanced computer users and IT administrators are provided with the ability to search files by the user name, user domain, primary user group and group domain. Select the 'Search Files With the User Name' file matching rule, select an appropriate text matching operator and enter the user name to search for.



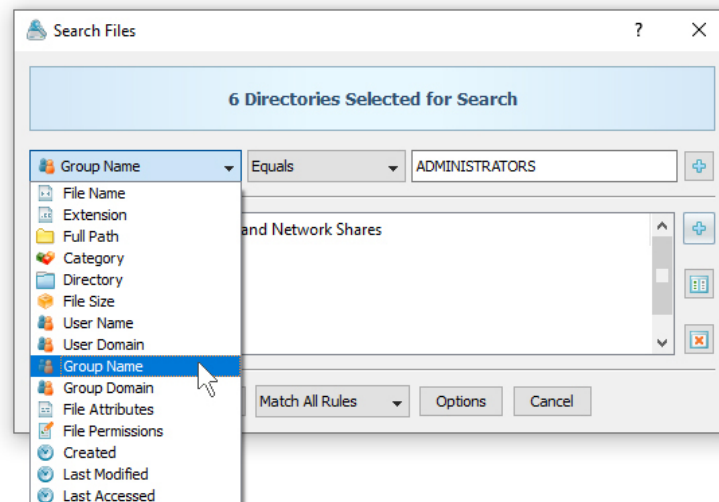
The entered text pattern is case insensitive and it may be matched exactly or at different places inside of the user name using different types of the text matching operator. For example, in order to search for all files owned by the computer Administrator, select the 'User Name' rule, set the rule operator to 'Equal' and enter 'Administrator' to the text entry.



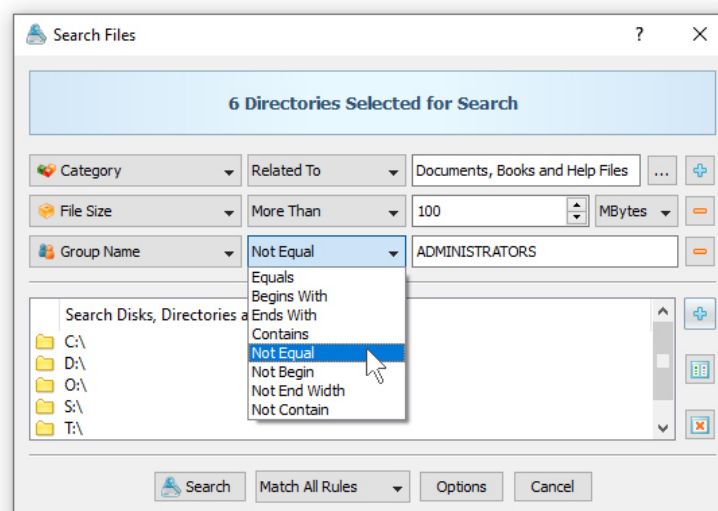
Another option is to use a negative search rule operator to search files not owned by the specified user. For example, in order to search files owned by any regular user, but not by the computer Administrator, set the rule operator to 'Not Equal' and enter 'Administrator' to the text entry.

16 Searching Files by User Group

In addition, IT administrators are provided with the ability to search files by the primary user group. For example, in order to search files owner by all administrators, set the search rule type to 'Group Name', set the search operator to 'Equals', set the rule value to 'ADMINISTRATORS' and press the 'Search' button.



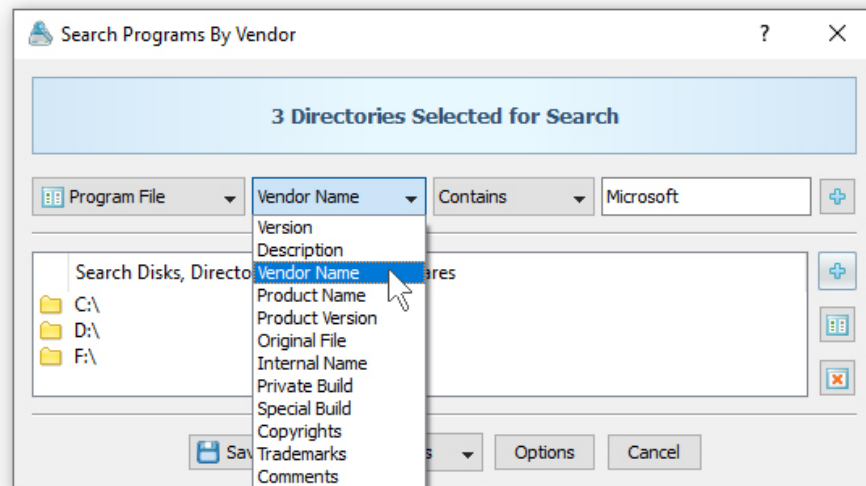
One of the most powerful capabilities of the VX Search file matching rules, is the ability to combine different types of rules to precisely search for the required files. For example, in order to search for all types of large documents owned by regular users, but not by Administrators, add a rule to match all types of documents, add a second rule to match files by the file size, add a third rule to match files with the primary user group not equal to 'ADMINISTRATORS' and then set the rules logic to 'Match All Rules'.



During the file search operation, VX Search will apply the file matching rules according to the specified rules order and rules logic. For example, if the rules logic is set to 'Match All Rules', VX Search will apply the rules until the first not matching rule and the rest of the rules will be skipped. On the other hand, if the rules logic is set to 'Match Any Rule', the rules will be applied until the first matching rule and the rest of the rules will be skipped.

17 Searching Programs by Version Information

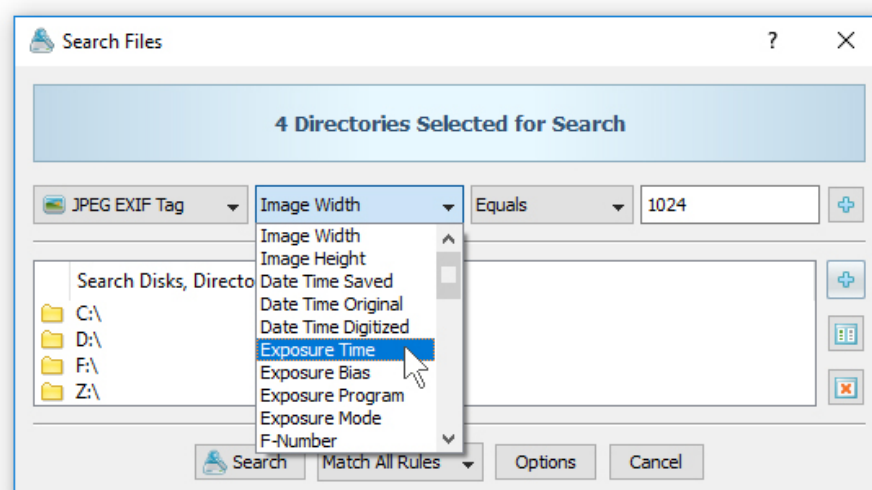
VX Search provides the ability to search program files and DLL library files by the file version, file description, vendor name, product name, product version, original file name, internal file name, build number, copyright information and comments added by the software vendor of program files and DLL libraries.



For example, in order to search for all programs and DLL libraries developed by Microsoft, set the rule type to 'Program File', set the rule mode to 'Vendor Name', set the rule operator to 'Contains', set the rule value to 'Microsoft' and press the 'Search' button.

18 Searching JPEG images by EXIF tags

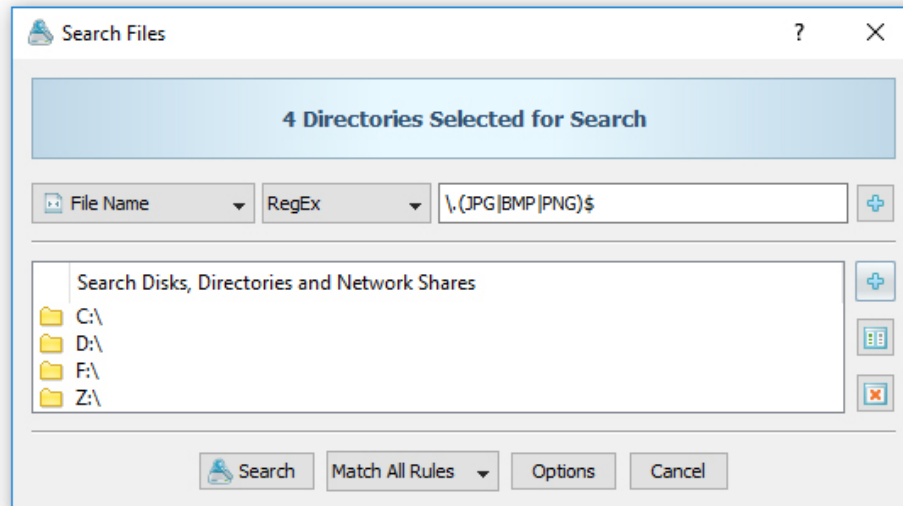
All JPEG images include a set of EXIF tags containing various information about the camera and the imaging mode used to take the picture. In addition, the EXIF tags may contain custom fields with proprietary information related to the subject displayed in the picture. VX Search allows one to search JPEG images using standard and custom JPEG EXIF tags.



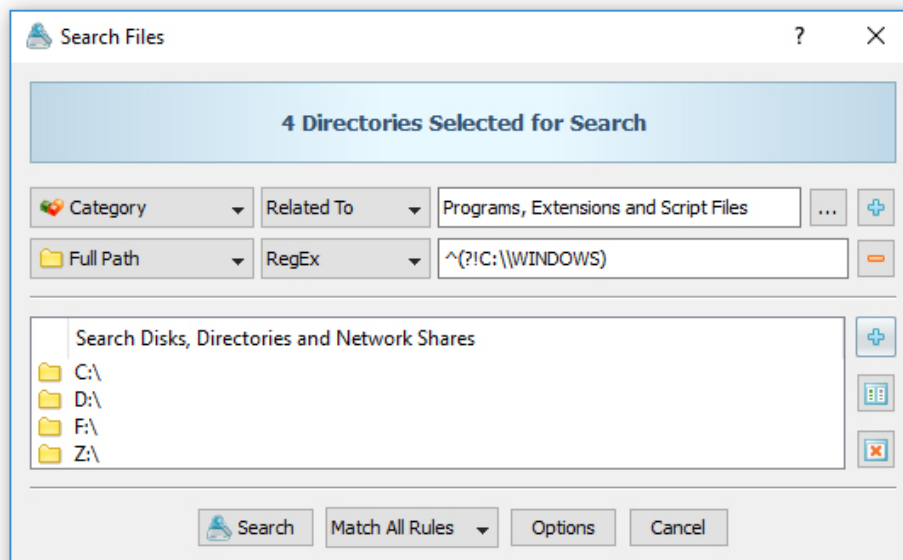
In order to search JPEG images by EXIF tags, select the 'Search JPEG Images With EXIF Tag' file matching rule, select the tag to be checked, select an appropriate text matching operator and enter a text or numeric value to search for.

19 Searching Files Using Regular Expressions

Regular expressions provide a flexible and powerful way to match text patterns in file names and directories. VX Search provides RegEx pattern matching operators for the file name search rule, the file path search rule and the text pattern search rule.



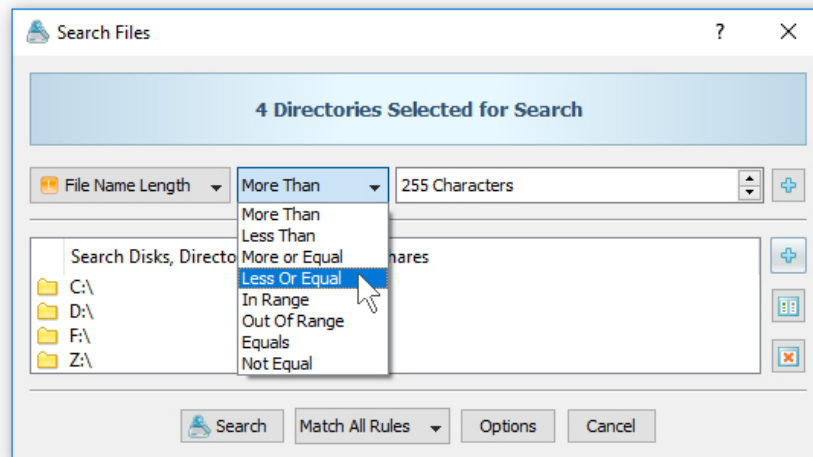
In order to search files using a regular expression, select the 'File Name' file matching rule, select the 'RegEx' pattern matching operator and enter a regular expression that should be matched. For example, the '\.(JPG|BMP|PNG)\$' regular expression will match all JPG, BMP and PNG image files.



Regular expressions may be combined with other types of file matching rules allowing one to match a very specific set of files. In addition to the ability to match files using regular expressions, VX Search allows one to exclude files using regular expressions. For example, in order to search all programs and executable files while excluding files located in the Windows directory, use the regular expression '^(!C:\\WINDOWS)' applied to the 'Full Path' file matching rule.

20 Searching Files by the File Name Length

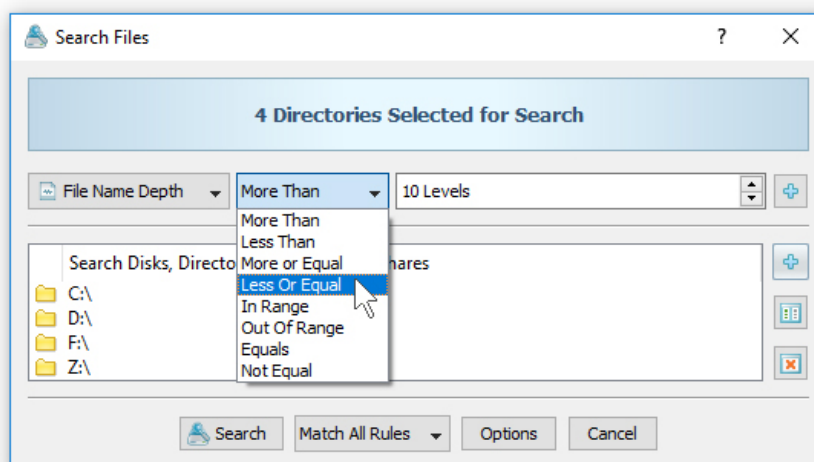
VX Search provides the ability to search files by the length of the file name allowing one to identify files with long file names, which may cause compatibility problems with some old software programs not supporting long file names. In order to search files by the length of the file name, open the file search dialog and add the 'File Name Length' search rule, select an appropriate operator and enter the number of file name characters to search for.



The 'File Name Length' rule provides a number of operators allowing one to match files with the file name length more, less, equal or not equal to a user-specified value. In addition, the user is provided with 'In Range' and 'Out Of Range' file name length operators.

21 Searching Files by the File System Depth

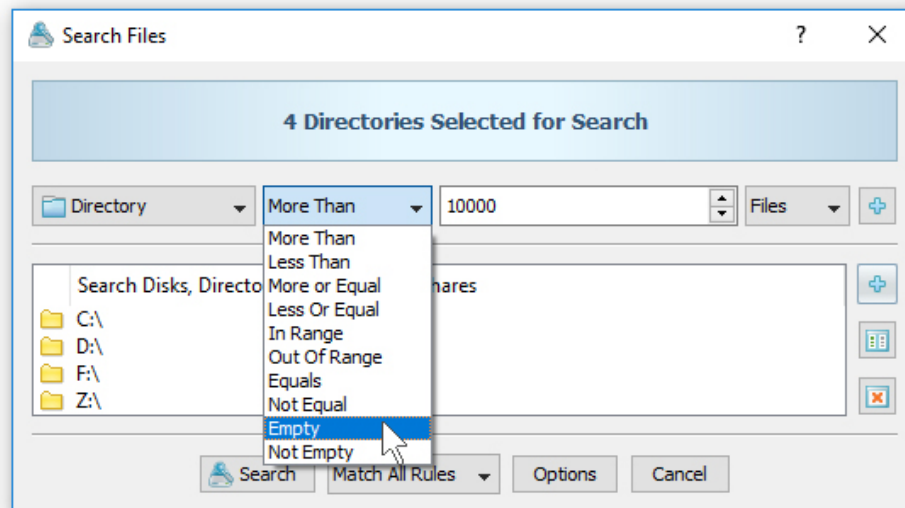
Advanced users are provided with the 'File Name Depth' search rule, which is capable of matching files by the depth of the file system. This rule may be useful when the user is required to exclude files located too deep in the file system or match files located on a very specific level in the file system.



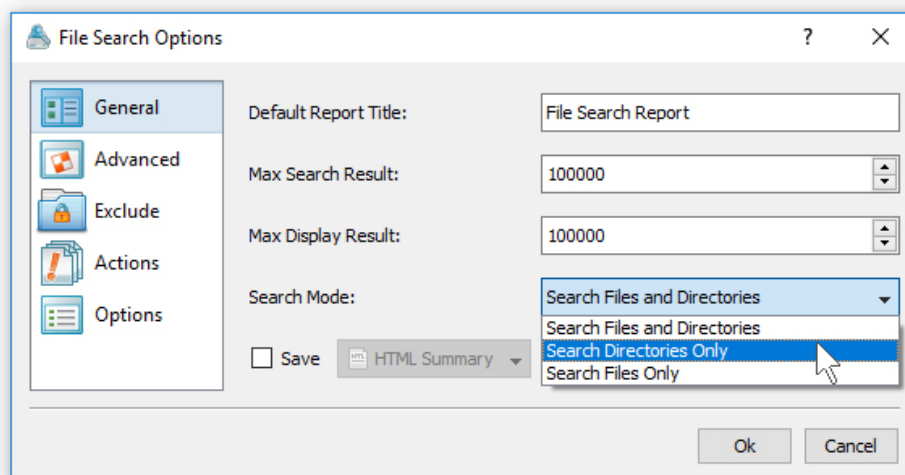
In order to search files by the depth of the file system, open the file search dialog and add the 'File Name Depth' search rule, select an appropriate operator and enter the number of file system levels to search for. The 'File Name Depth' rule provides a number of operators allowing one to match files with the file system depth more, less, equal or not equal to a user-specified value. In addition, the user is provided with 'In Range' and 'Out Of Range' file system depth operators.

22 Searching Directories

VX Search provides the ability to find directories by the number of files, number of subdirectories or the amount of disk space used by files located in a directory. For example, in order to find all directories containing more than 1,000 files, select the 'Directory' search rule, select the 'More Than' operator, set the rule value to 1,000 and set the rule units to 'Files'.



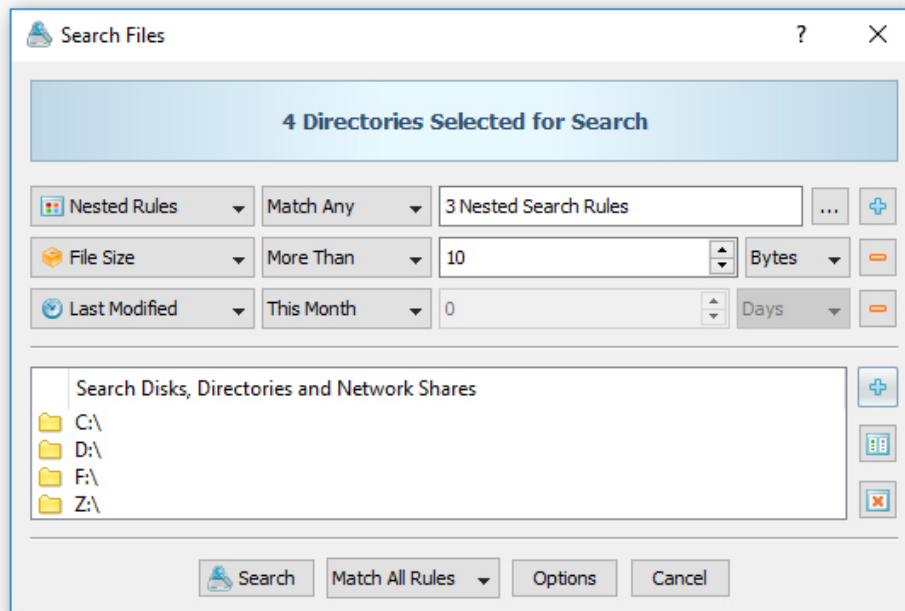
In addition to the standard operators, the 'Directory' rule provides two special operators, named 'Empty' and 'Not Empty', allowing one to easily find empty or not empty directories. During the search process, the 'Directory' rule will be applied only to directories and in order to operate properly, the command search mode should be set to 'Search Files and Directories' or 'Search Directories Only'.



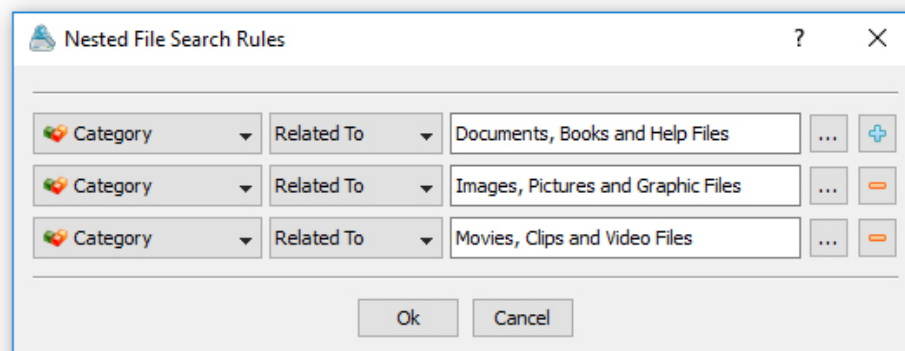
The search mode is especially useful when the user needs to find directories by the directory name and/or attributes and skip all files matching the rules from the search results. In order to search only for directories, open the search options dialog, select the 'General' tab and set the search mode to 'Search Directories Only'.

23 Using Multi-Level File Search Rules

Sometimes, it may be required to define multi-level, hierarchical file matching rules. For example, let's assume that we need to find files related to multiple file categories that were modified today. In order to define such a rule, open the advanced search options dialog, press the right mouse button over the list of file matching rules and select the 'Add Nested Rule List' menu item.



On the nested rules dialog, add all the required file categories, select the 'OR' logical operator and press the 'OK' button. On the advanced search dialog, press the 'Add' button, add the time-based file matching rule to find files that were modified today and select the 'AND' logical operator.

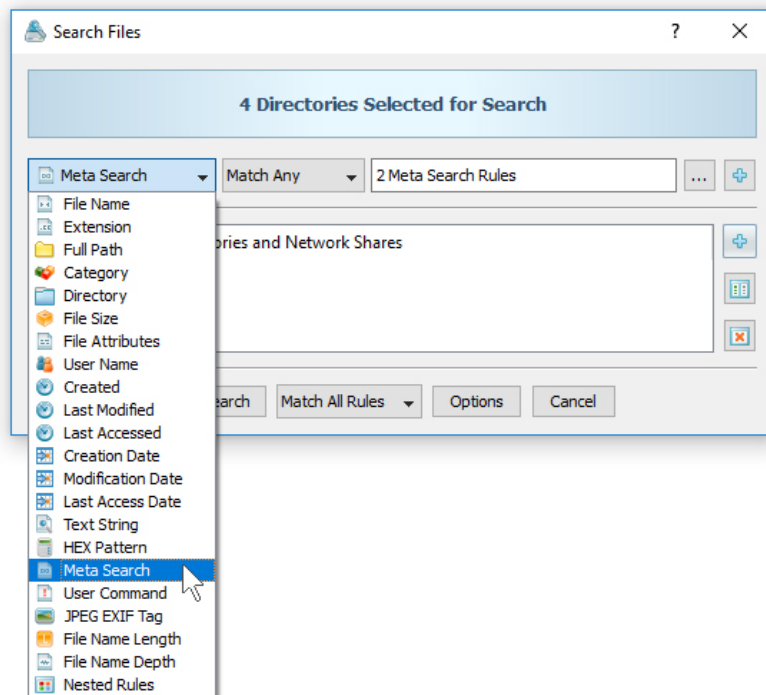


The nested rule list will match all the required file categories, while the time-based top level file matching rule will select files that were modified today. VX Search provides a fully scalable rule-based model with an unlimited number of nested levels allowing one to define sophisticated multi-level file matching rules capable of precisely searching the required files.

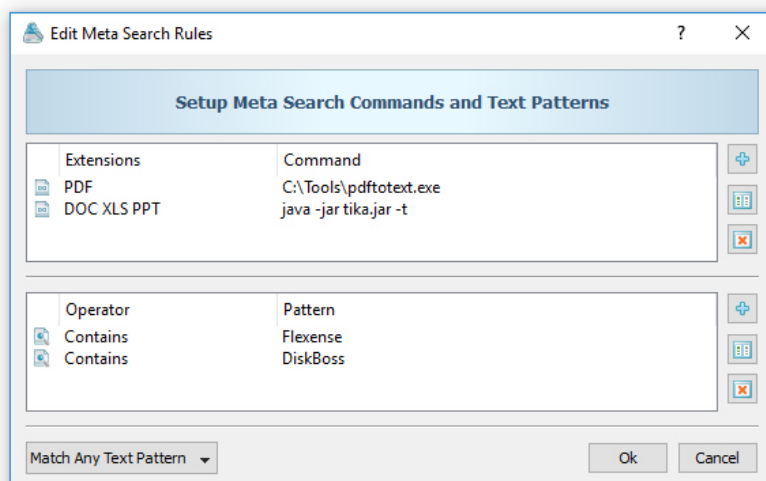
In addition, power computer users and IT administrators are provided with an XML-Based format allowing one to define custom file classifications plug-ins and complex search queries, which may be executed using the VX Search command line utility. Finally, the command line utility may be used to execute automated periodic file search operations, generate reports, submit search results to an SQL database or issue E-Mail notifications when a search operation finds a user-specified number of files.

24 Integrating VX Search with External Tools

VX Search allows one to integrate external content extraction or file format conversion tools in the file search operations. The user is provided with the ability to specify which external tools, commands or script files to execute for which file extensions and then configure one or more text patterns to search in the output generated by the configured external tools.



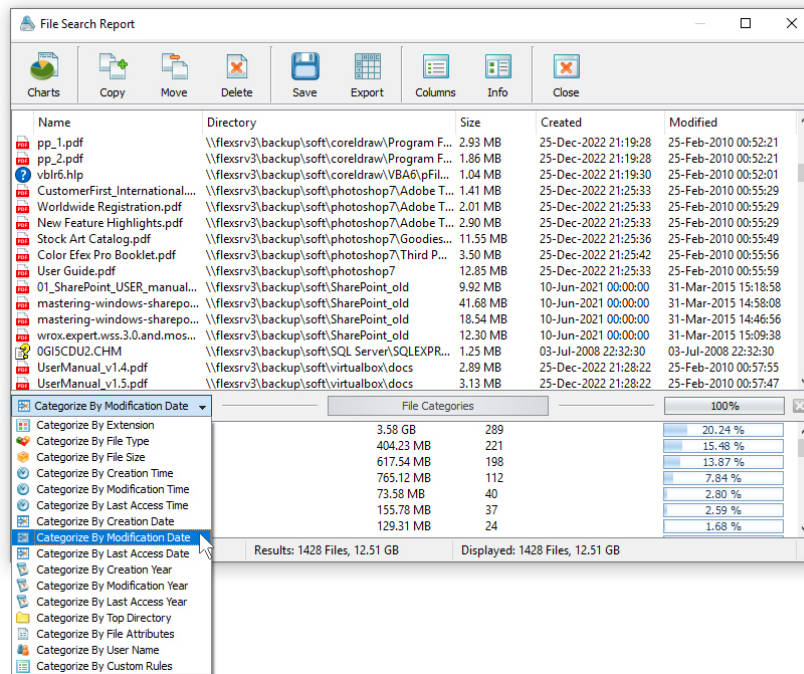
In order to configure a file search operation to use an external tool, open the search dialog, select the 'Meta Search' rule type and press the 'Edit Rule' button. On the 'Meta Search' rule dialog, press the 'Add' button in the top view and specify one or more file extensions to process and a custom command to execute for each file with the specified file extensions.



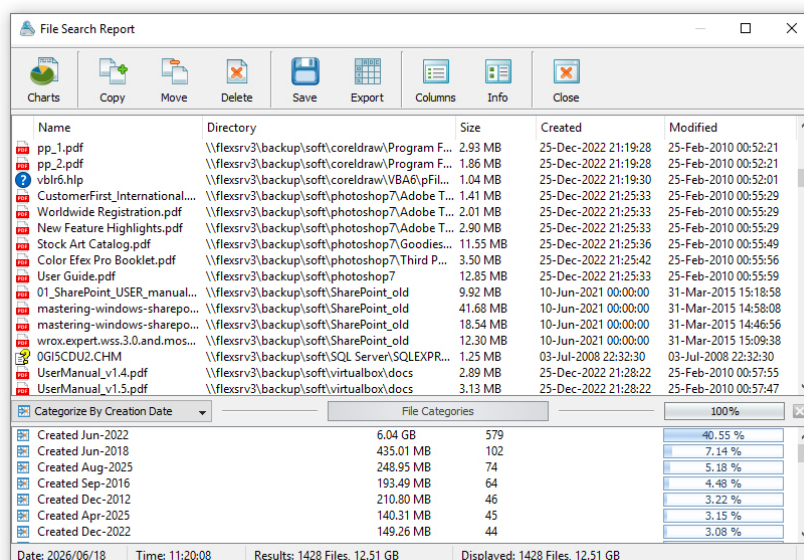
Once finished configuring file extensions and custom commands, press the 'Add' button in the bottom view and specify one or more text patterns to search in the output generated by the configured custom commands. During runtime, VX Search will scan the specified input directories, process all the existing files, execute the configured commands for each file with the specified file extensions and search for the user-specified text patterns in the output generated by the executed custom commands.

25 Categorizing and Filtering File Search Results

The bottom part of the file search results dialog shows file categories and allows one to filter the file search results using one or more file filters. The user is provided with the ability to categorize search results by the file type, file extension, size, creation, modification and last access time and the user name. Use the categories combo box to select an appropriate file categorization mode.

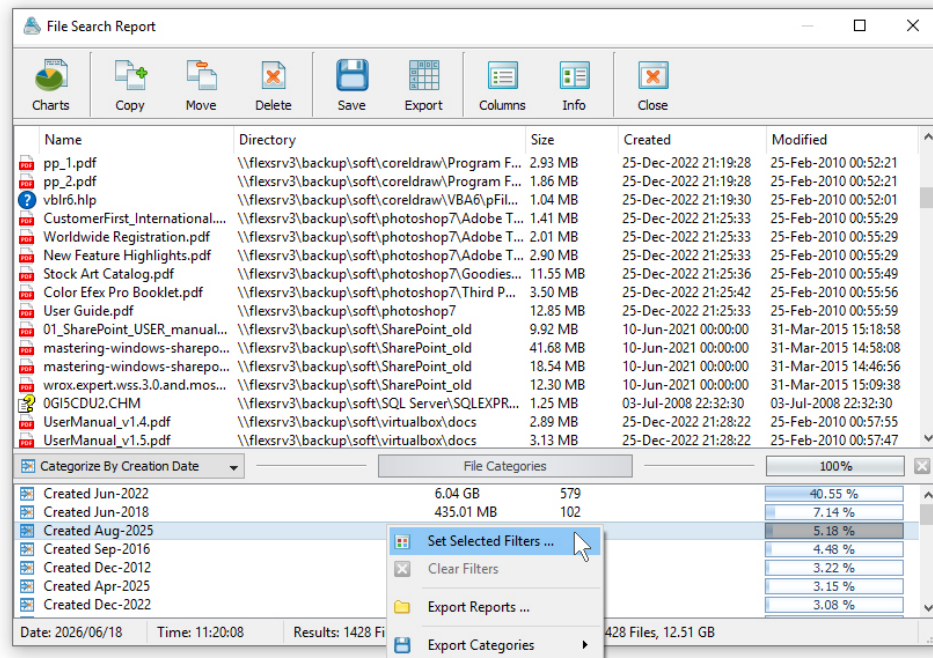


For example, in order to categorize the file search results by the modification year, click on the file categories combo box and select the 'Categorize by Modification Year' file categorization mode. VX Search will categorize the file search results and display the number of files and the amount of disk space for each modification year.

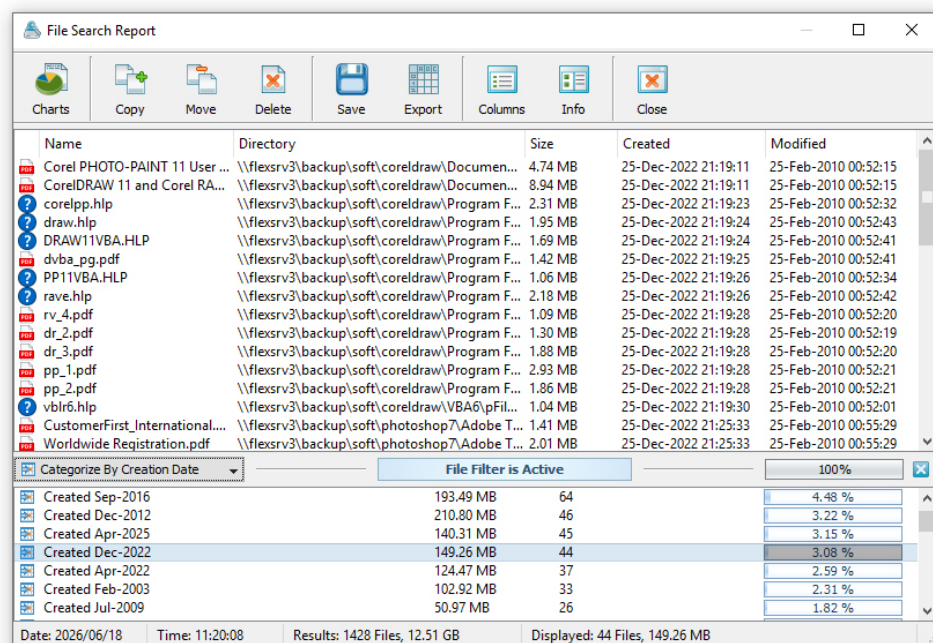


In addition, the user is provided with the ability to export the list of displayed file categories to the HTML, PDF, Excel, text, JSON, CSV and XML formats. In order to export the list file categories, select the required categories, press the right mouse button, select the 'Export Categories' menu item and then select an appropriate report format.

Another advanced feature provided by VX Search is the ability to filter the file search results by one or more of second-level file categories. For example, let's assume that we have searched for all pictures and image files in a computer. The top pane of the file search results dialog shows the file search results and the bottom pane shows file categories.



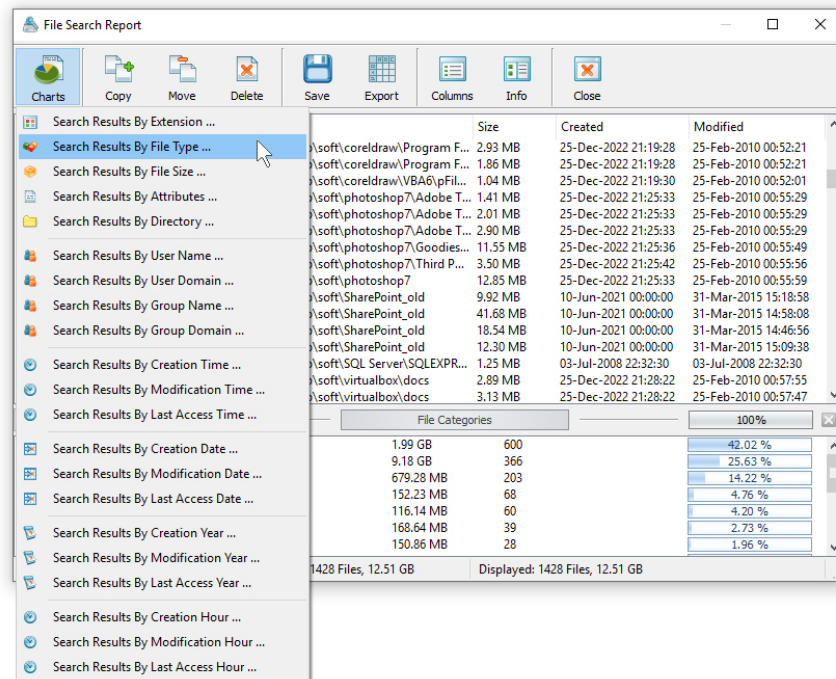
Select one or more file categories in the bottom pane, press the right mouse button and select the 'Apply Filters' menu item. VX Search will filter the search results and show files matching the selected file categories.



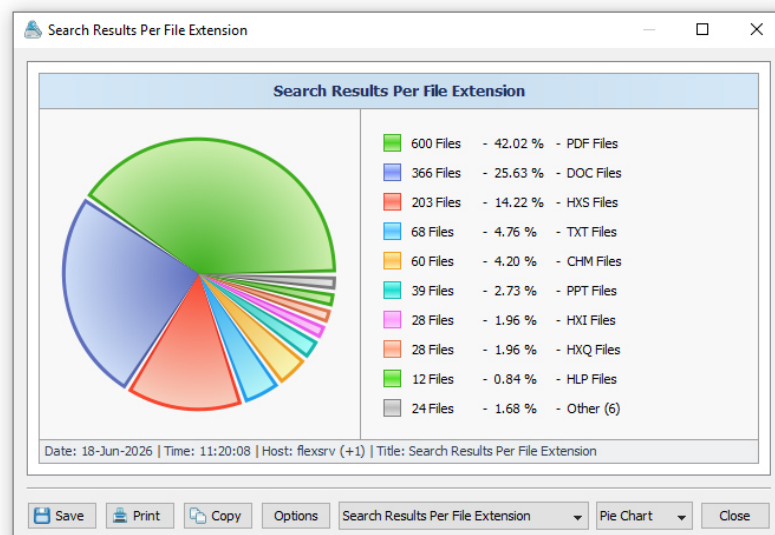
Now, the user can export reports and/or perform file management operations, such as file copy, move or delete, on files matching the selected file categories. In order to clear the selected file categories press the 'Clear' button located on the right side of the categories progress bar.

26 File Search Statistics and Pie Charts

The VX Search file search server provides multiple types of statistical pie charts and timeline charts capable of showing the number of search results and the amount of disk space per directory, file extension, file type, file size, file owner, creation, modification and last access time. In order to open the charts dialog, press the 'Charts' button located on the main toolbar and select an appropriate chart type.

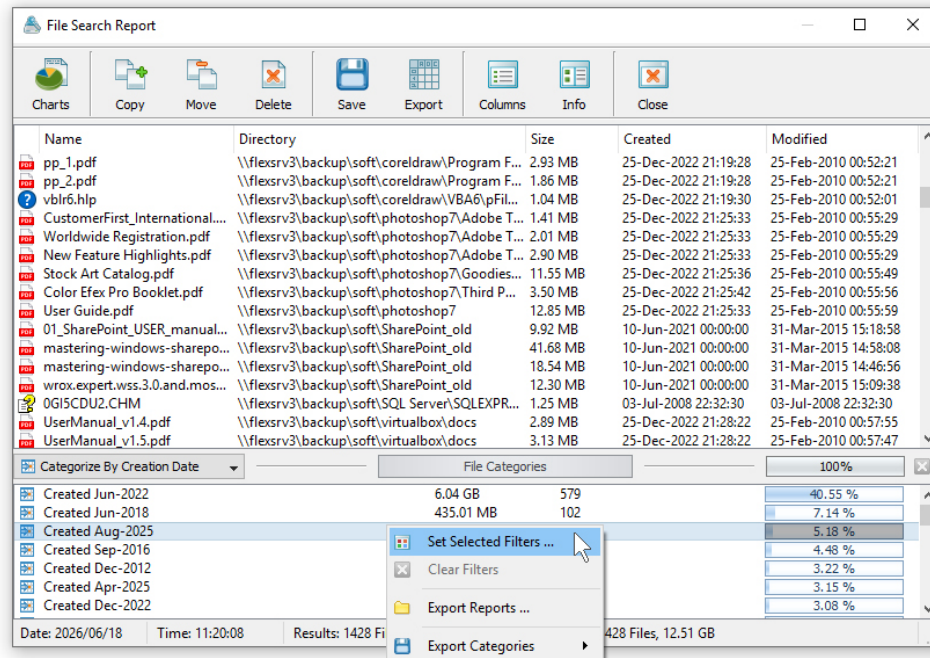


For example, in order to open a chart showing the number of search results and the amount of disk space per file extension, press the 'Charts' button located on the main toolbar and select the 'Search Results Per Extension' chart type.

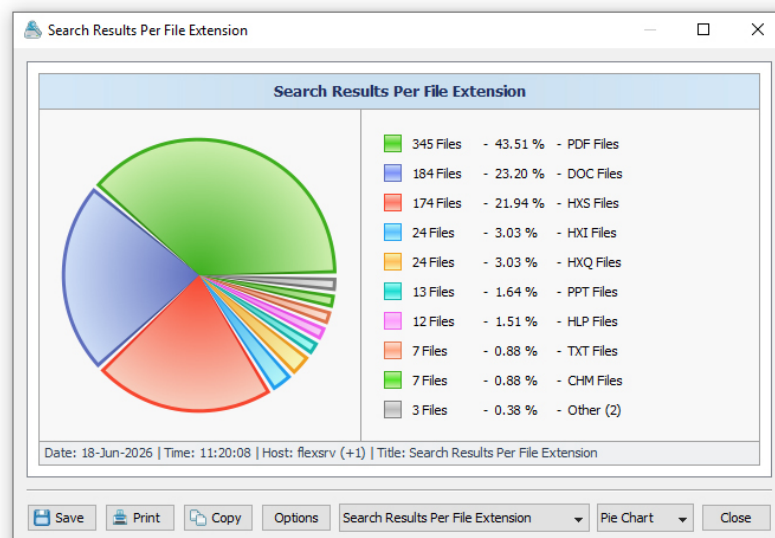


In addition, the charts dialog provides the user with the ability to export the chart data to a number of different formats and copy the displayed chart image to the clipboard allowing one to easily integrate VX Search charts into user's documents and presentations. In order to customize the chart's description, press the 'Options' button and specify a custom chart title, host name, date or time.

One of the most powerful features of the VX Search file search utility is the ability to filter file search results using one or more user-specified filters and then categorize filtered results and display statistical pie charts. For example, in order to display a pie chart showing the number of search results per file extension for files that were modified during the last two years, set the file categorization mode to 'Categorize By Modification Year', select one or more years to show the information for, press the right mouse button over the file filters view and select the 'Apply Selected Filters' menu item.

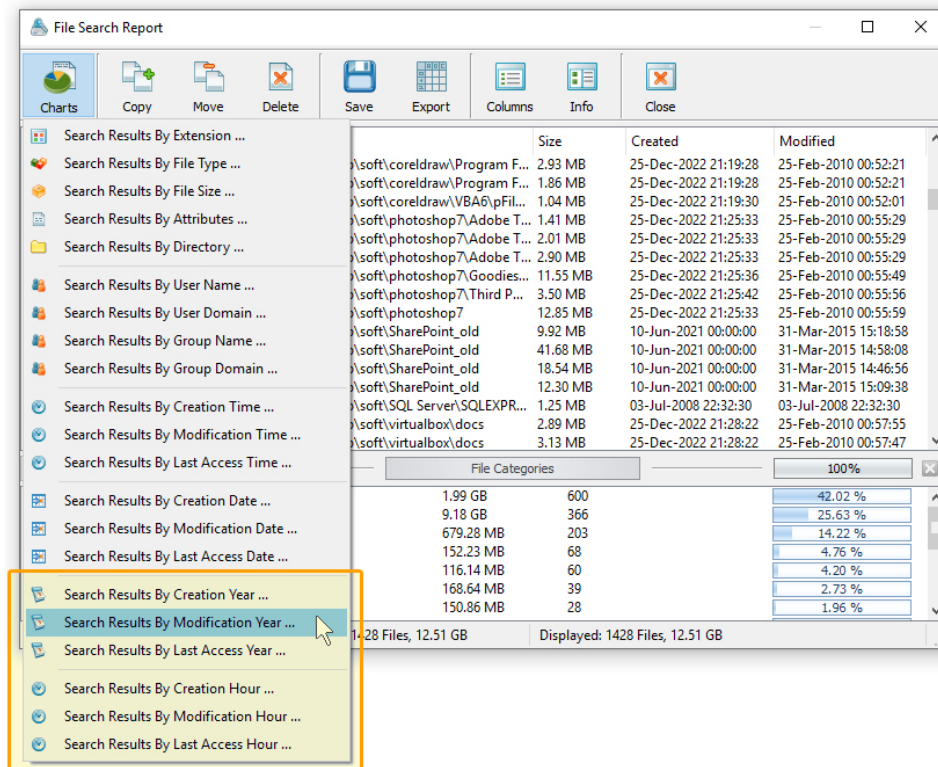


VX Search will filter the file search results and display search results that were modified during the selected years. Now, press the 'Charts' button located on the main toolbar and select the 'Search Results Per Extension' menu item. VX Search will categorize the filtered file search results and display a pie chart showing the number of search results per file extension for files that were modified during the selected years.

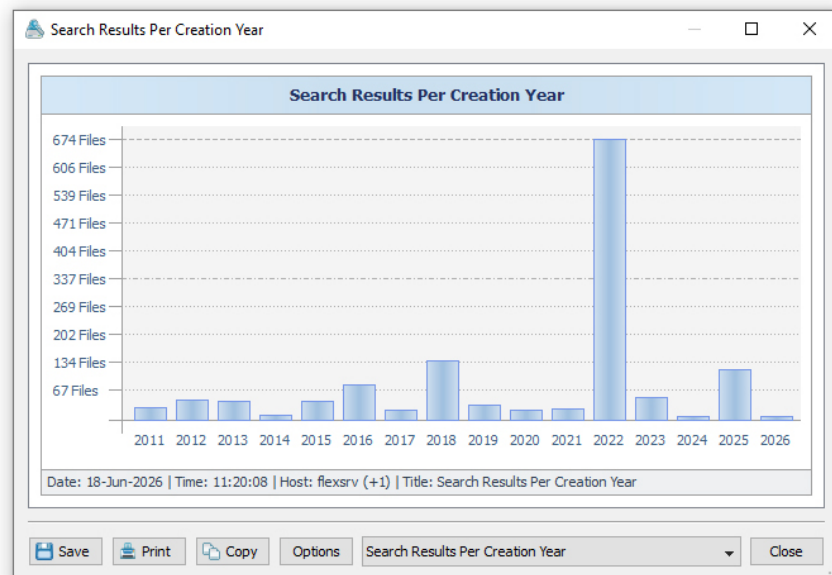


In a similar way, the user can filter the file search results by the file type, size, user name, file attributes, creation, modification and last access dates and then display various types of charts showing file search results statistics according to the user-specific needs.

Another powerful capability is the ability to display the file search results timeline charts for all or filtered file search results. In the simplest case, press the 'Charts' button located on the main toolbar and select the 'Search Results Per Modification Year' menu item.



VX Search will display a time line chart showing how much search results were modified per year. In order to display how much data was modified per year, set the chart mode to 'Disk Space Usage Per Modification Year'.

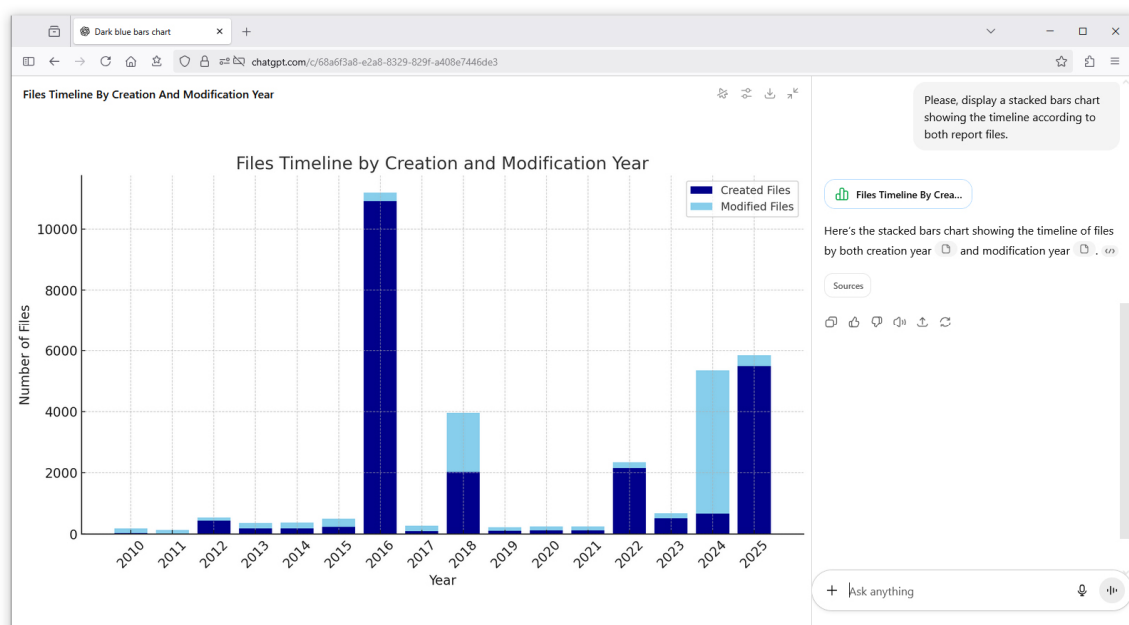


In addition, the user is provided with the ability to display timeline charts for filtered file search results. For example, in order to display how many documents were created per year, set the file categorization mode to 'Categorize By File Type', select the 'Documents, Books and Help Files' file category, press the right mouse button and select the 'Apply Selected Filters' menu item. Now, press the 'Charts' button located on the main toolbar, and select the 'Search Results Per Creation Year' menu item.

One of the most powerful capabilities of the VX Search file search solution is the ability to export file search results to AI-friendly file formats allowing one to easily import file search results to various AI platform, perform advanced analysis operations and generate user-custom charts.



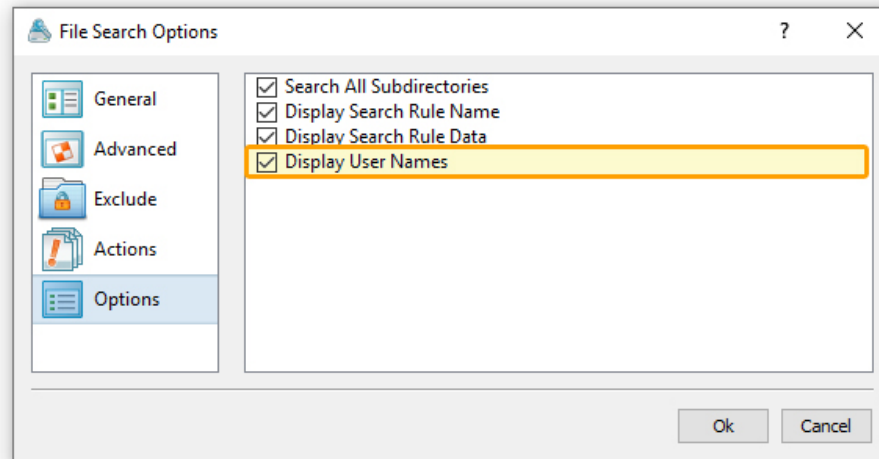
For example, in order to generate a timeline showing the number of file search results per file creation year using the ChatGPT AI platform, press the 'Charts' button located on the main toolbar, select the 'Search Results By Creation Year' chart type, export the chart data to the JSON file format, import the JSON file to the ChatGPT AI platform and ask ChatGPT to display a timeline chart according to the uploaded JSON report file.



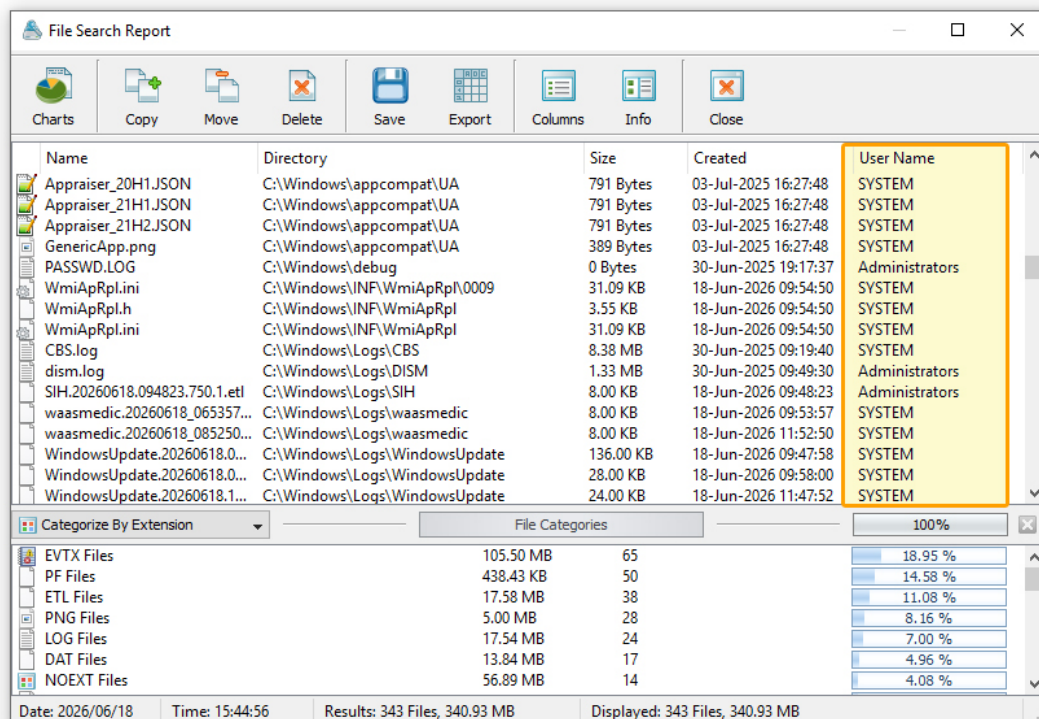
In order to display a consolidated, stacked timeline chart showing the number of file search results per file creation and last modification year, open the VX Search GUI application, press the 'Charts' button located on the main toolbar, select the 'Search Results By Modification Year' chart type, export the chart data to the JSON file format, import the second JSON report file to the ChatGPT AI platform and ask ChatGPT to display a stacked time line chart.

27 Showing File Search Results User Names

VX Search provides the ability to show files user names in the file search results view. In order to enable processing and display of files user names, open the file search profile dialog, press the 'Options' button, select the 'Options' tab and select the 'Display User Names' option.



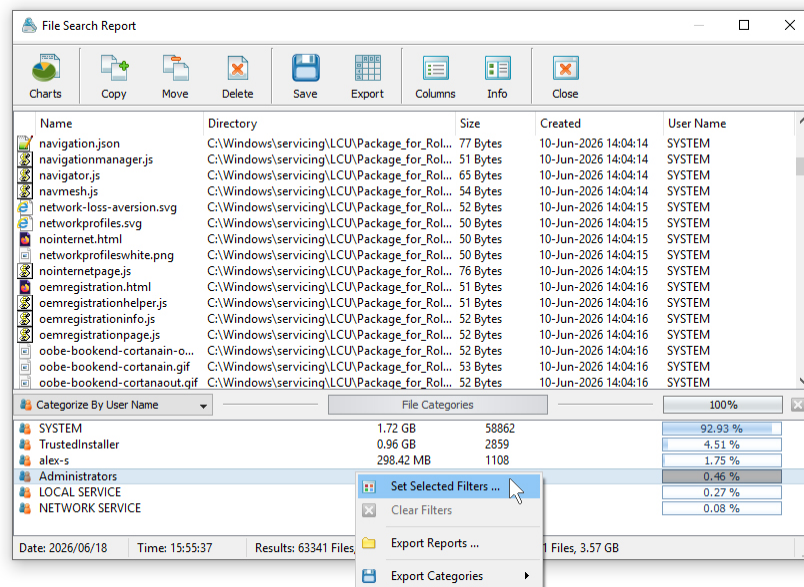
With this option enabled, the VX Search GUI application will show the user name for each file search result in the search results view. In addition, PDF and XML reports will include user names for all file search results.



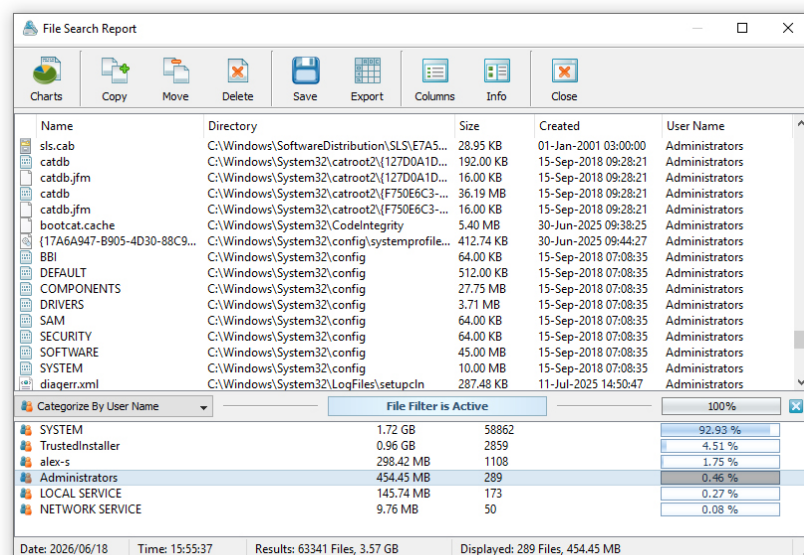
The option to process and display files user names significantly reduces the performance of file search operations and it should be enabled only when required. The potential performance impact may be especially significant when searching files in network shares or NAS storage devices over a high-latency network and in such situations it is recommended to configure the file search operation to use multiple parallel file search threads.

28 Categorizing and Filtering File Search Results by User Name

VX Search Server allows one to categorize and filter file search results by the user name. In order to categorize file search results by the user name, open the file search options dialog, select the 'General' tab, select the option to 'Process and Show Files User Names' and start the file search operation. When the file search operation will be completed, set the 'Categorize by User Name' file categorization mode.



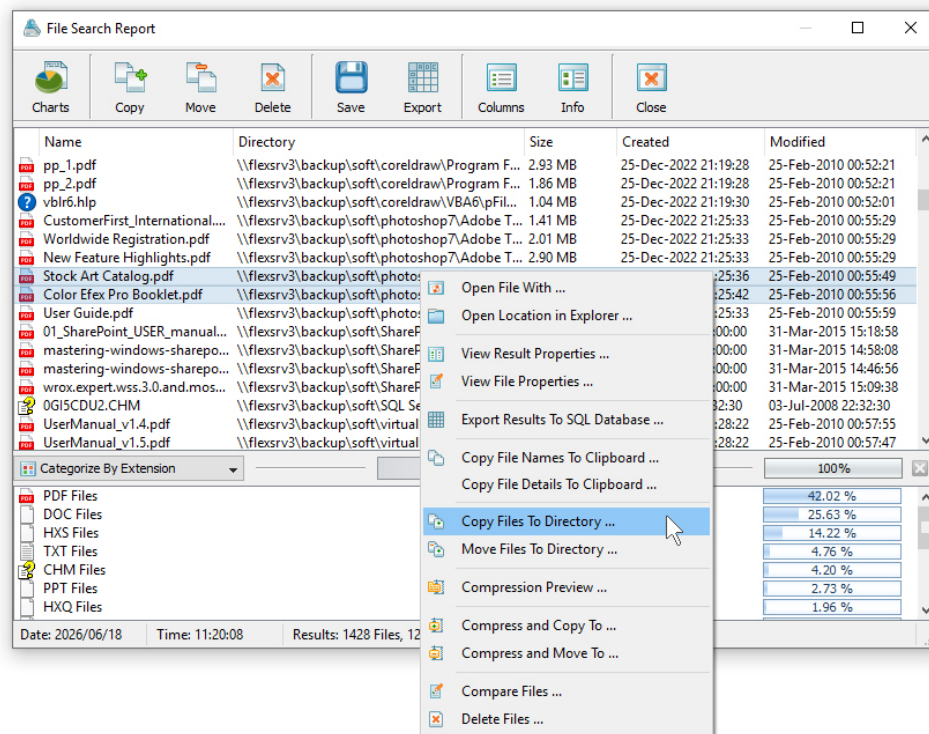
The file categories view will show all user names, the number of file search results per user and the amount of disk space per user. In order to export user names and displayed statistics to a pie chart or bars chart, press the 'Charts' button, select an appropriate chart type and press the 'Copy To Clipboard' button. In order to export user names and statistics to a report file, press the 'Save' button and select an appropriate report format.



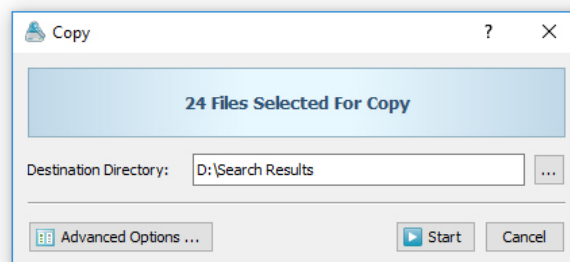
Sometimes, it may be required to generate multiple reports with each one listing files related to a specific user or perform a file management operation on files related to a specific user. In this case, select the required user name in the file categories view, press the right mouse button and select the 'Apply Filters' menu item. VX Search will filter files related to the selected user and all reports and file management operations will be performed on files related to the selected user.

29 Performing File Management Operations

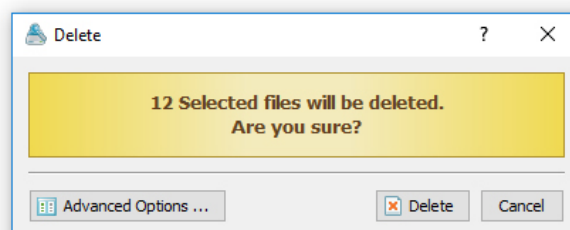
VX Search Server allows one to perform file management operations, such as file copy, move or delete, on file search results. For example, in order to copy one or more files displayed in the search results view, select the files in the results view, press the right mouse button and select the 'Copy Files' menu item.



On the file copy dialog, enter a destination directory and press the 'Start' button. The destination directory should be specified as an absolute location with a full path. The UNC notation for network shares is also supported.

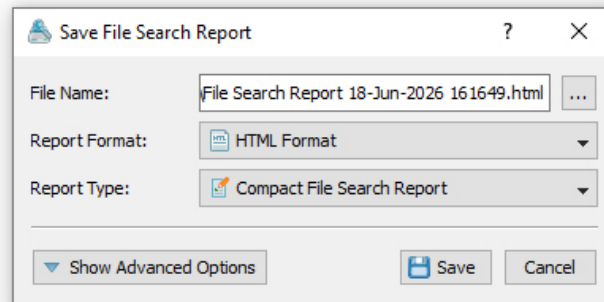


In order to delete one or more files, select the required files in the search results view, press the right mouse button and select the 'Delete Files' menu item. For advanced delete options, such as data wiping capabilities, press the 'Advanced Options' button.



30 Saving File Search Reports

VX Search allows one to save file search reports into a number of standard formats including HTML, PDF, Excel, text, JSON, CSV and XML. In the simplest case, perform a file search operation and press the 'Save' button located on the main toolbar. On the save report dialog, select an appropriate report format, enter a report file name and press the 'Save' button.



For the HTML, PDF, Excel, text, JSON, CSV and XML report formats, the user is provided with the ability to save short summary reports or longer detailed reports, which may be very long for large reports containing many thousands of files. By default, VX Search will save a short, summary file search report in the HTML report format, which will include a list of the first 20 file search results and a list of tables showing the disk space usage and the number of file search results per file extension, file type, top-level directory name, user name, etc.

Generated By: **VX Search Ultimate v17.9.14** 11-Mar-2026 11:12:24

File Search Report

Start Time:	2026/03/11 11:08:25	Stop Time:	2026/03/11 11:08:42
Command:	Search Files Modified Today	Report ID:	94DB3636822E9AA48537BDD55FCEE4BCFE6C0552
Input Dirs:	c:\	Signature:	59D75DD6F26789F6FF797CB580B32BB85F46142
Total Dirs:	86366	Results Dirs:	0
Total Files:	221765	Results Files:	104
Total Space:	16.55 GB	Results Size:	134.50 MB
Process Time:	16.77 Sec	Performance:	11105 Files/Sec
Host Name:	W10LTS32	User Name:	alex-s

7 - File Categories

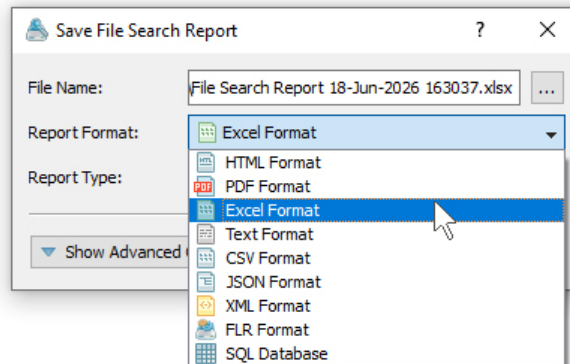
Category	Files	Size	Size (%)
Windows Files	24 Files	83.29 MB	61.92 %
Miscellaneous Files	38 Files	40.77 MB	30.31 %
Programs, Extensions and Script Files	11 Files	9.09 MB	6.76 %
Documents, Books and Help Files	12 Files	478.13 KB	0.35 %
Internet Files	3 Files	442.15 KB	0.32 %
Unknown Files	13 Files	388.24 KB	0.28 %
Temporary Files	3 Files	77.04 KB	0.06 %

104 - File Search Results

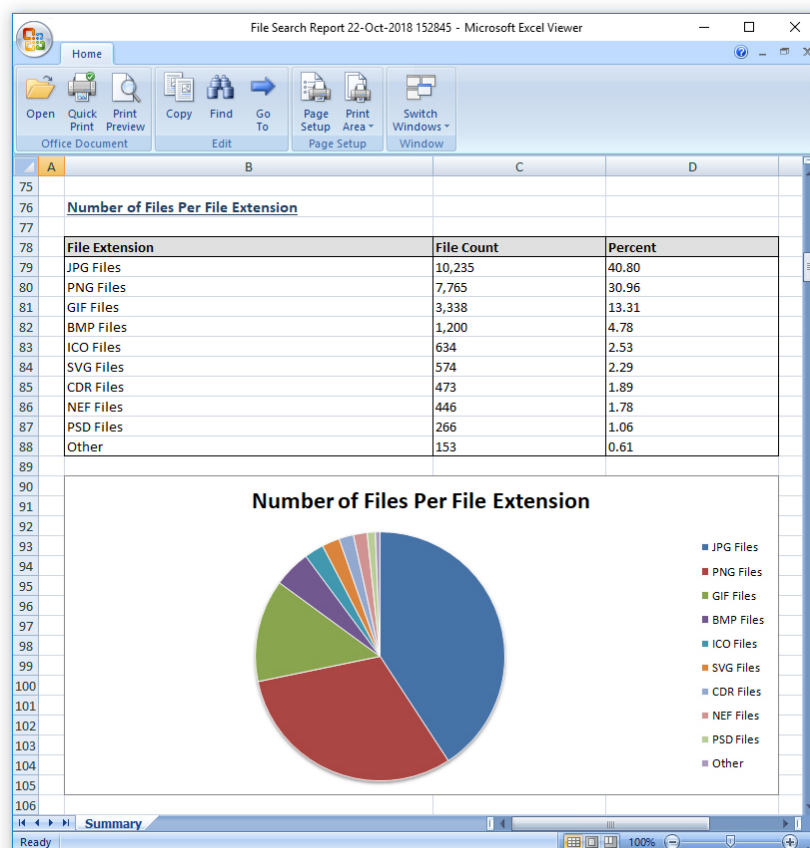
Type	Size	Last Modified	Name
File	40 Bytes	11-Mar-2026 11:07:45	C:\Program Files\Google\GoogleUpdater\147.0.7703.0\Crashpad\settings.dat
File	1.35 KB	11-Mar-2026 11:07:59	C:\Program Files\Google\GoogleUpdater\prefs.json
File	319.17 KB	11-Mar-2026 11:08:07	C:\Program Files\Google\GoogleUpdater\updater.log
File	46.49 KB	11-Mar-2026 11:08:07	C:\Program Files\Google\GoogleUpdater\updater_history.jsonl
File	1.06 MB	11-Mar-2026 10:36:46	C:\Program Files\VX Search Ultimate\bin\libpal.dll
File	3.14 MB	11-Mar-2026 10:40:58	C:\Program Files\VX Search Ultimate\bin\libspg.dll
File	2.58 MB	11-Mar-2026 10:38:16	C:\Program Files\VX Search Ultimate\bin\libspg.dll
File	776.00 KB	11-Mar-2026 10:41:40	C:\Program Files\VX Search Ultimate\bin\libvxs.dll
File	252.00 KB	11-Mar-2026 10:41:44	C:\Program Files\VX Search Ultimate\bin\libvxs.dll

In addition, the user is provided with the ability to save file search results to the VX Search native report format, which preserves all information related to each specific file search operation and may be loaded at any time by using the VX Search GUI application.

Sometimes, it may be required to perform additional analysis of file search results using external tools such as Microsoft Excel. In order to export file search results to the Excel report format, perform a file search operation, press the 'Save' button located on the main toolbar, select the 'Excel Summary' report format for a short summary report or the 'Excel Report' format for a detailed file search report.



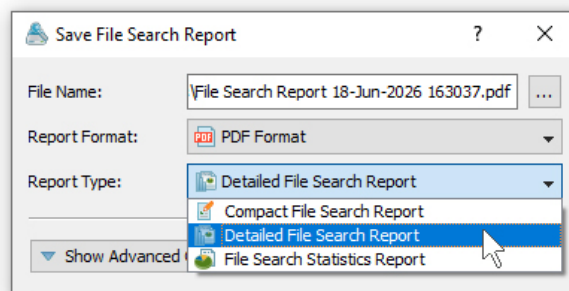
A summary Excel report will include a list of the first 20 file search results and a number of tables with pie charts showing the used disk space and the number of file search results per file extension, file category, top-level directory name, file creation time, last modification time, user name, etc.



A detailed Excel report will include a list of file categories according to the currently selected file categorization mode and a full list of file search results, which may be very long for large reports containing many thousands of files. In order to control how many files are exported in the detailed report, press the 'Advanced Options' button located on the 'Save Report' dialog and customize the file search report for your specific needs.

31 Saving Graphical PDF Reports

One of the most useful ways to export file search results is to use the PDF summary or the PDF report formats. Both of these report formats include various types of graphical pie charts showing disk space usage and the number of file search results per file extension, file category, creation time, last modification time, top-level directory name, user name, etc. In order to save file search results to a PDF report file, press the 'Save' button located on the main toolbar and select the 'PDF Summary' report format for a short, summary report or the 'PDF Report' format for a detailed file search report.



A summary PDF report will include a list of the first 20 file search results and followed by a number of pie charts showing the disk space usage and the number of file search results per file extension, file category, file creation time, last modification time, top-level directory name, user name, etc. A detailed PDF report will include a full list of file search results, which may be very long for large reports containing many thousands of files.

File Search Report

Start Time:	2026/03/11 11:08:25	Stop Time:	2026/03/11 11:08:42
Command:	Search Files Modified Today	Report ID:	94DB3636822E9AA48537BDD55FCEE4BCFE6C0552
Input Dirs:	c:\	Signature:	59D75DD6F26789F6FF797CB580B322BBB5F46142
Total Dirs:	86366	Results Dirs:	0
Total Files:	221765	Results Files:	104
Total Space:	16.55 GB	Results Size:	134.50 MB
Process Time:	16.77 Sec	Performance:	11105 Files/Sec
Host Name:	W10LTS32	User Name:	alex-s

7 - File Categories

Category	Files	Size	Size (%)
Windows Files	24	83.29 MB	61.92 %
Miscellaneous Files	38	40.77 MB	30.31 %
Programs, Extensions and Script Files	11	9.09 MB	6.76 %
Documents, Books and Help Files	12	478.13 KB	0.35 %
Internet Files	3	442.15 KB	0.32 %
Unknown Files	13	388.24 KB	0.28 %
Temporary Files	3	77.04 KB	0.06 %

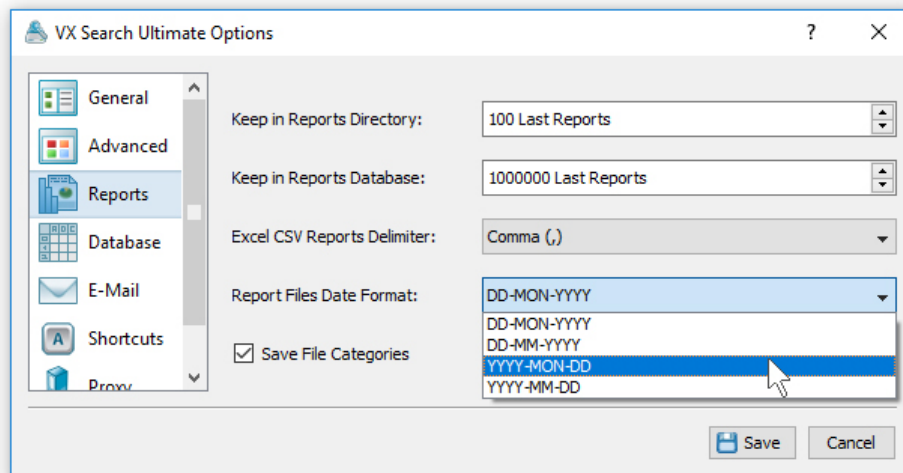
104 - File Search Results

Type	Size	Last Modified	Name
File	40 Bytes	11-Mar-2026 11:07:45	C:\Program Files\Google\GoogleUpdater\147.0.7703.0\Crashpad\settings.dat
File	1.35 KB	11-Mar-2026 11:07:59	C:\Program Files\Google\GoogleUpdater\prefs.json
File	319.17 KB	11-Mar-2026 11:08:07	C:\Program Files\Google\GoogleUpdater\updater.log
File	46.49 KB	11-Mar-2026 11:08:07	C:\Program Files\Google\GoogleUpdater\updater_history.jsonl
File	1.06 MB	11-Mar-2026 10:36:46	C:\Program Files\VX Search Ultimate\bin\libpa.dll
File	3.14 MB	11-Mar-2026 10:40:58	C:\Program Files\VX Search Ultimate\bin\libspg.dll
File	2.58 MB	11-Mar-2026 10:38:16	C:\Program Files\VX Search Ultimate\bin\libsp.dll

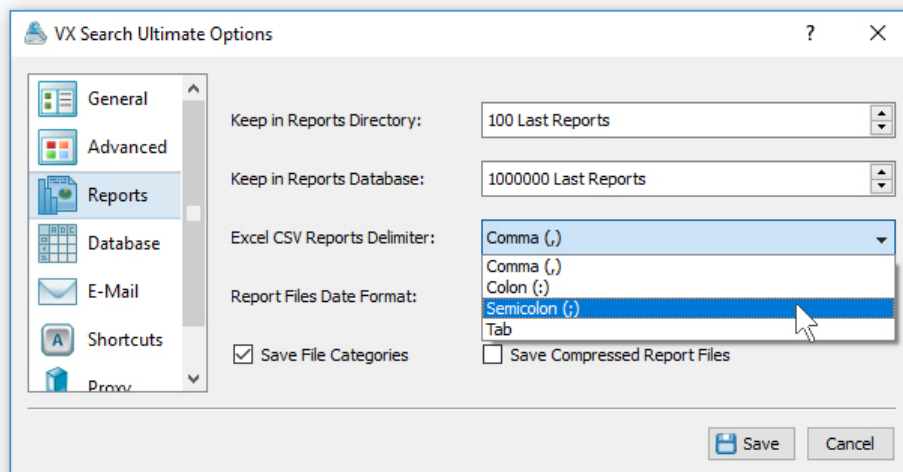
In addition to the list of file search results, detailed PDF reports include pie charts showing the disk space usage per file category and the number of file search results per file category according to the currently selected file categorization mode. For example, if the second-level file categories mode is set to categorize file search results by the file extension, the PDF report will display pie charts showing the used disk space and the number of files per file extension.

32 Customizing File Search Reports

By default, VX Search exports file search reports including the last modification date for each file search result. The date format used in file search reports is easily readable, but not good for sorting file search results by the last modification date in external programs such as Microsoft Excel, etc. In addition to the default date format, VX Search provides a number of alternative date formats allowing one to customize file search reports. In order to change the date format used in file search reports, open the 'Options' dialog, select the 'Reports' tab and set the 'Report Files Date Format' to an appropriate date format.



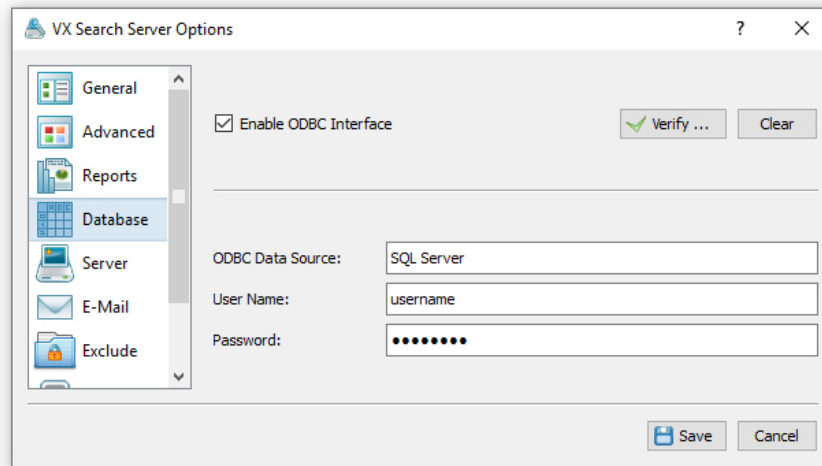
When exporting Excel CSV reports, the user may encounter problems with directories and files having the comma (,) character in the file or directory name. The comma (,) character is a valid character for file names, but this character is normally used in Excel CSV reports as the delimiter character causing file names containing the comma character to span multiple data fields in Microsoft Excel data sheets.



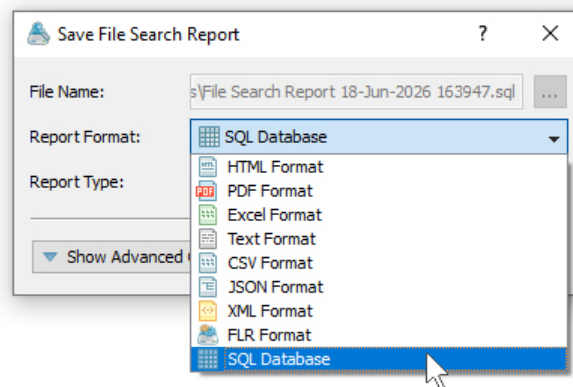
In order to change the CSV reports delimiter character used by VX Search in file search reports, open the 'Options' dialog, select the 'Reports' tab and set the CSV reports delimiter to the 'Tab' character, which cannot be used in file names and therefore will not conflict with file names exported in file search reports. In order to import a tab-delimited file search report to an Excel data sheet, open Microsoft Excel, select the menu 'Data - Import External Data - Import Data', select the file search report file and select the 'Tab' character as the data field delimiter.

33 Exporting File Search Results to an SQL Database

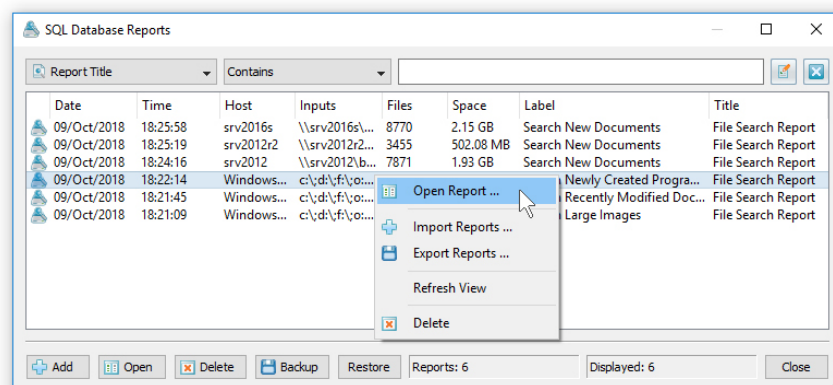
VX Search Server and VX Search Enterprise provide the ability to export search results into an SQL database allowing one to save reports from multiple servers and/or desktop computers in a centralized SQL database for future analysis and reference.



Before exporting search results to an SQL database, the user needs to open the options dialog and configure an ODBC data source to use to connect to the database.

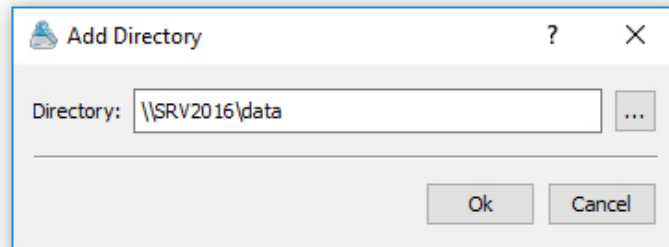


Once the database connection is configured and tested, press the 'Save' button located on the main toolbar, enter a report title, select the 'SQL Database' report format and press the 'Save' button. For each report in the database, VX Search shows the date and time of the search operation, the host name, the directories that were searched, the number of files and disk space and the report title. To load a previously saved report, just click on the report item.

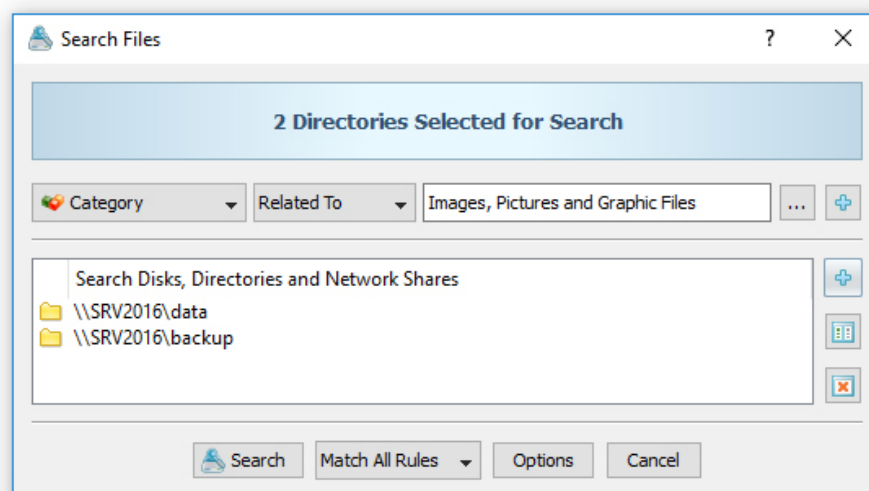


34 Searching Network Shares Using UNC Path Names

VX Search fully supports the UNC notation and allows one to search files in network shares by specifying one or more UNC network locations in the file search dialog. In order to search files in one or more network shares, press the 'Add' button located on the right side of the list of search locations, enter a UNC network location and press the 'Ok' button.



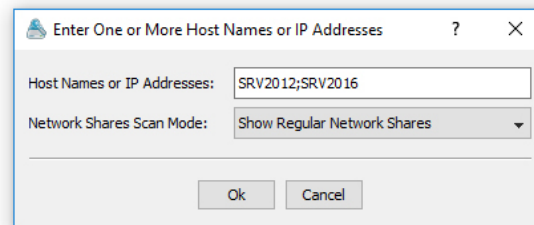
In order to be able to search files in network shares, the user needs to have directory access permissions. In addition, in order to perform file management operations on file search results, such as file copy, move or delete, the user needs to have file write permissions.



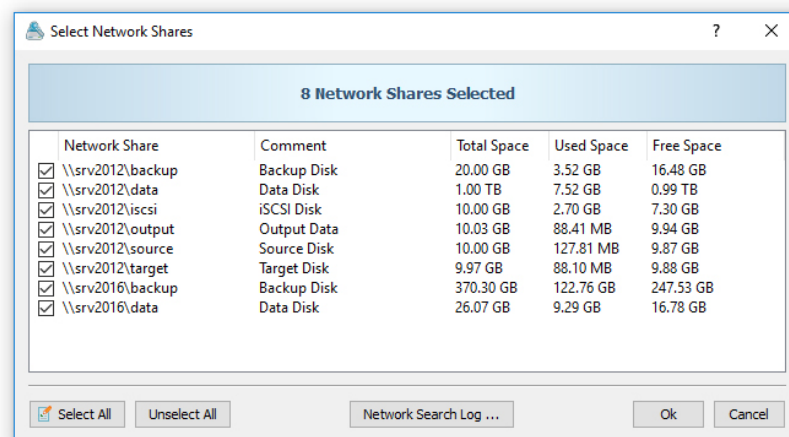
In addition to the ability to search files using UNC network locations, VX Search allows one to copy or move file search results to UNC network locations. For example, in order to copy one or more files to an UNC network location, select the required files in the file search results view, press the right mouse button, select the 'Copy Files To' menu item, enter the UNC network location to copy the selected files to and press the 'Start' button.

35 Searching Files in One or More Servers

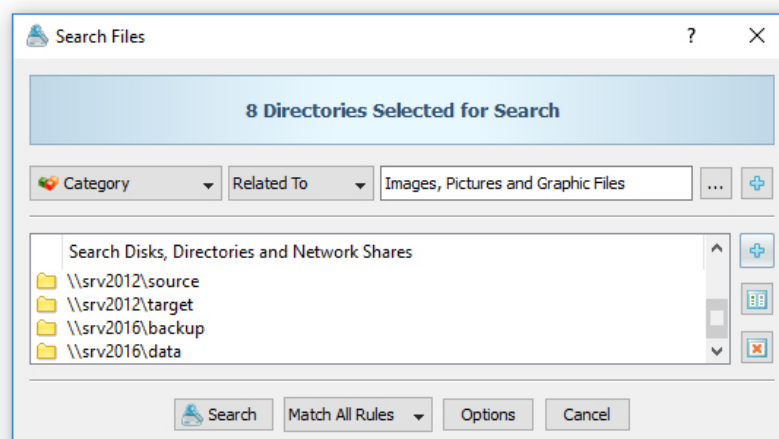
VX Search allows one to search files in all network shares of one or more servers or NAS storage devices on the network. In order to search files in one or more servers, open the search dialog, press the 'Add' button located on the right side of the list of search locations, select the 'Search Servers or NAS Devices' mode and enter one or more host names or IP addresses separated by the semicolon (;) character.



VX Search will scan the network and show a list of network shares detected in the specified servers and NAS storage devices allowing one to select one or more network shares that should be processed. In order to be able to use this feature, the user needs to have permissions to access network shares.

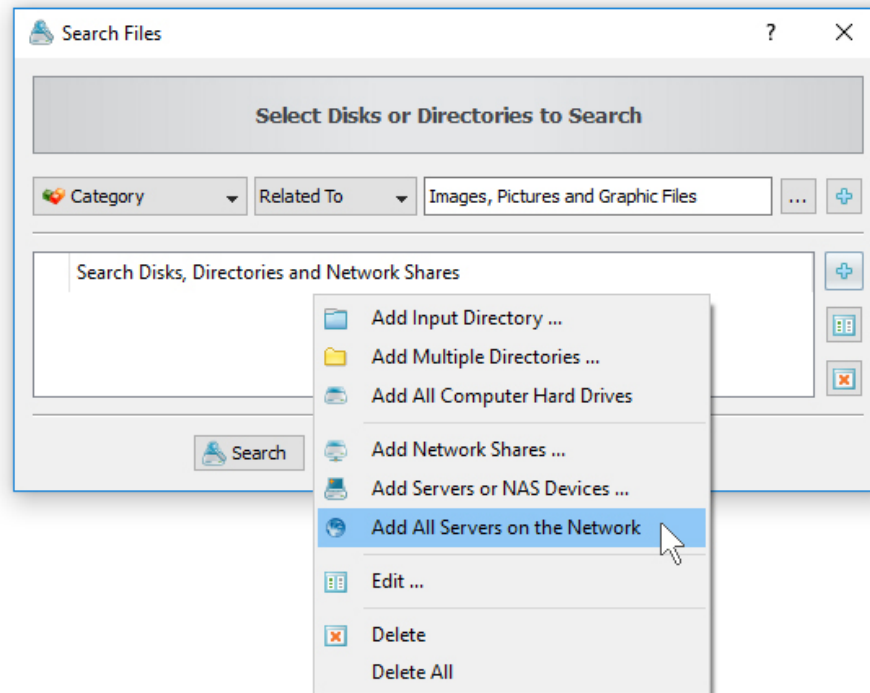


The network shares scanning operation may be performed multiple times for different servers and NAS storage devices and an unlimited number of network shares from different servers may be added to the file search operation. During runtime, VX Search will process all the specified network shares in parallel using all CPUs and/or CPU-cores available in the host computer VX Search is running on.

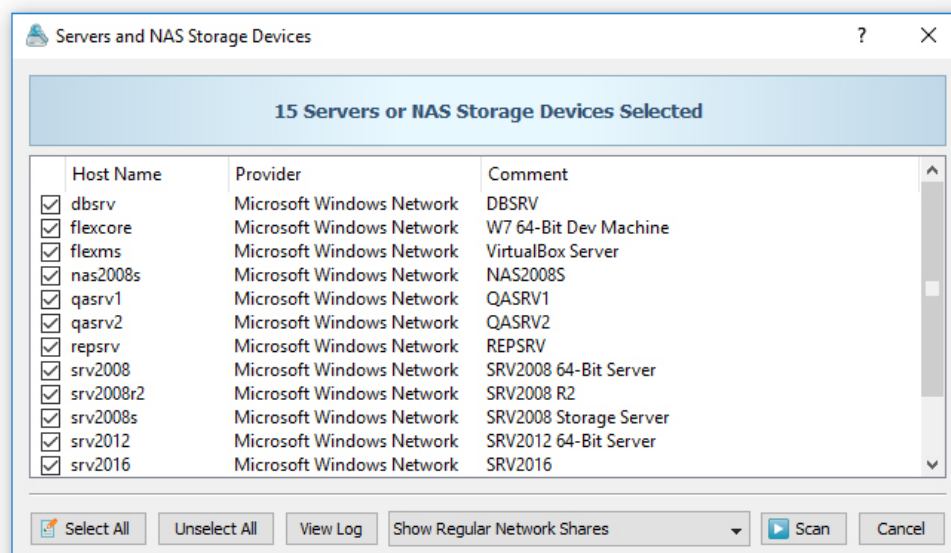


36 Searching Files in All Servers on the Network

Another option is to search files in all servers and/or NAS storage devices available on the network. In order to search files in all servers on the network, open the search dialog, press the 'Add' button located on the right side of the list of search locations, select the 'All Servers on the Network' mode and press the 'Ok' button.



VX Search will scan the network and show a list of servers and NAS storage devices detected on the network. Select one or more servers to search in and press the 'Ok' button.

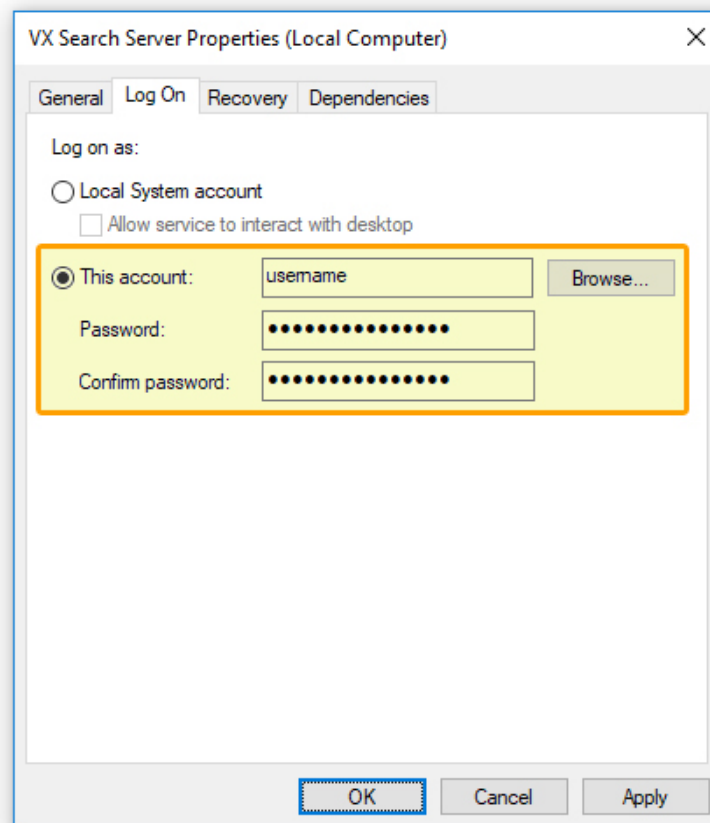


VX Search will scan the selected servers and show a list of network shares detected in the servers and NAS storage devices allowing one to select one or more network shares that should be processed. During runtime, VX Search will process the selected network shares in parallel using all CPUs available in the host computer VX Search is running on. In order to be able to use this feature, the user needs to have permissions to access network shares.

37 VX Search Server Service Configuration

By default, the VX Search Server service is configured to run under the local system account, which is good to search files in local disks and directories. On the other hand, the local system account does not have permissions to access network shares and NAS storage devices.

In order to enable VX Search Server to search files in network shares and NAS storage devices, the VX Search service should be configured to run under a user account, which has permissions to access files and directories located on the required network shares.



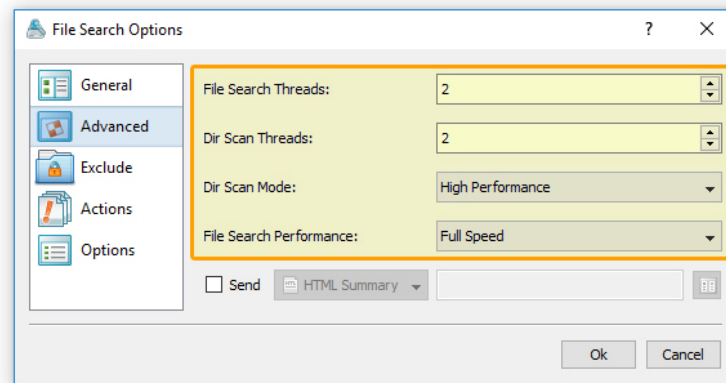
The configuration is very simple and may be performed within a couple of seconds using the following step-by-step guide:

1. Open the Windows control panel and click on the 'Administrative Tools' utility.
2. Open the Services control center and find here the ' VX Search Server' service.
3. Open the ' VX Search Server' service, select the 'General' tab and stop the service.
4. Select the 'Log On' tab and specify a user account to use for the service.
5. Select the 'General' tab and start the ' VX Search Server' service.

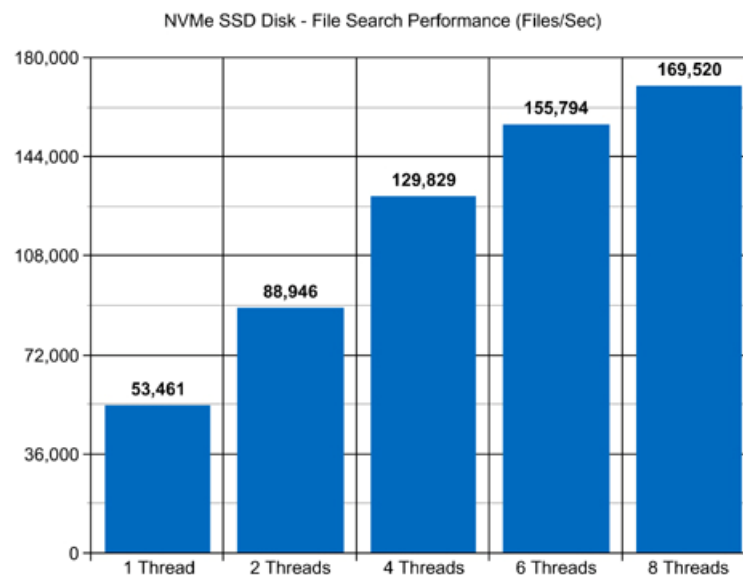
Now, the VX Search service will run under the specified user account and will have exactly the same permissions as the specified user account when accessing network shares and NAS storage devices.

38 Multi-Threaded File Search and Performance Options

VX Search is optimized for modern multi-core and multi-CPU systems and is capable of searching files stored on multiple disks, directories or network shares in parallel using all CPUs installed in the computer. VX Search provides a number of different performance optimization options allowing one to tune the file search operations for user-specific hardware and storage configurations.

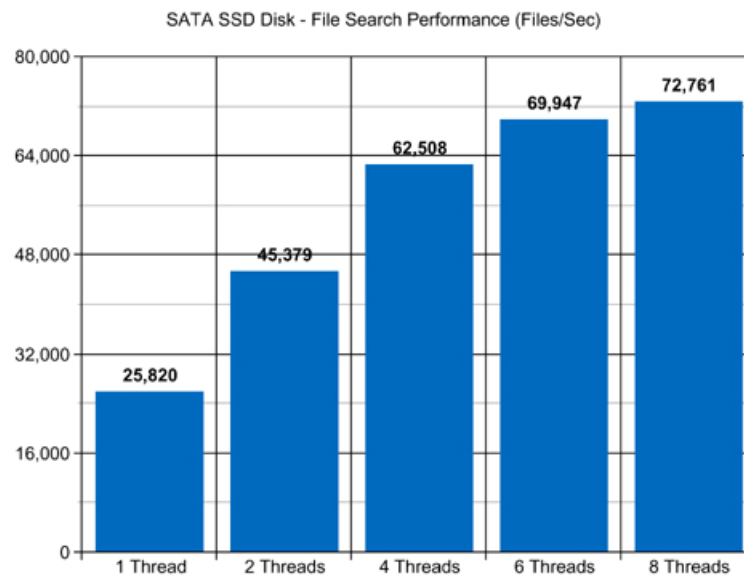


In order to customize the file search performance optimization options, open the file search operation dialog, press the 'Options' button and select the 'Advanced' tab. The 'File Search Threads' option controls how many parallel threads are used to search files. The 'Directories Scanning Threads' option controls how many parallel threads are used to scan input disks, directories and network shares. In the 'Fault-Tolerant' directory scanning mode, VX Search uses an individual processing thread for each input disk, directory or network share, but limits the maximum number of parallel scanning threads to the specified value. In the high-performance directory scanning mode, VX Search always uses the specified number of parallel directory scanning threads even when processing a single input disk, directory or network share.

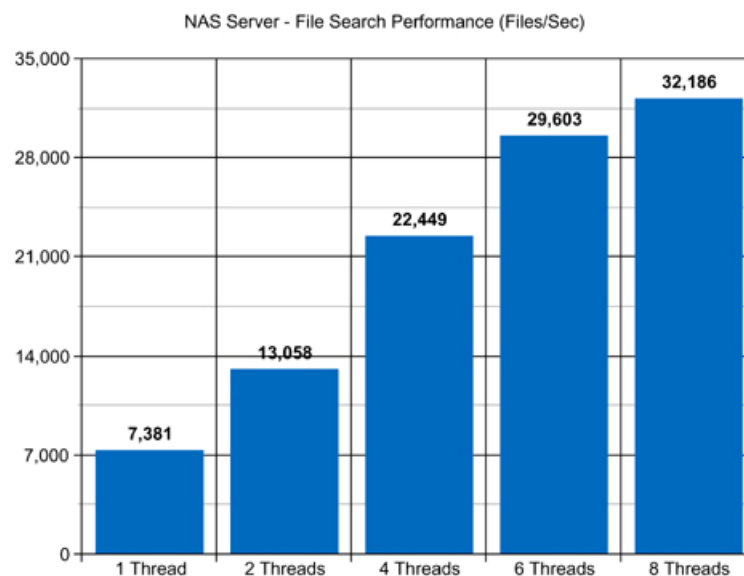


For example, when searching files stored on a high-speed NVMe SSD disk, VX Search reaches up to 53,000 files/sec using a single search thread. With two parallel search threads, the performance scales up to 88,000 files/sec and with four parallel search threads, the performance increases up to 129,000 files/sec showing a very good level of multi-threaded performance scalability. With six processing threads the file search performance reaches up to 155,000 files/sec and with eight processing threads the file search performance increases up to 169,000 files/sec allowing one to quickly search huge numbers of files.

When searching files stored on regular SATA SSD drives, which are significantly slower than NVMe SSD drives, the performance of the file search process reaches up to 25,000 files/sec using a single process thread and scales up to 62,000 files/sec with four parallel file search threads. With eight parallel file search threads, the performance reaches up to 72,000 files/sec, which allows to search large numbers of files very fast.

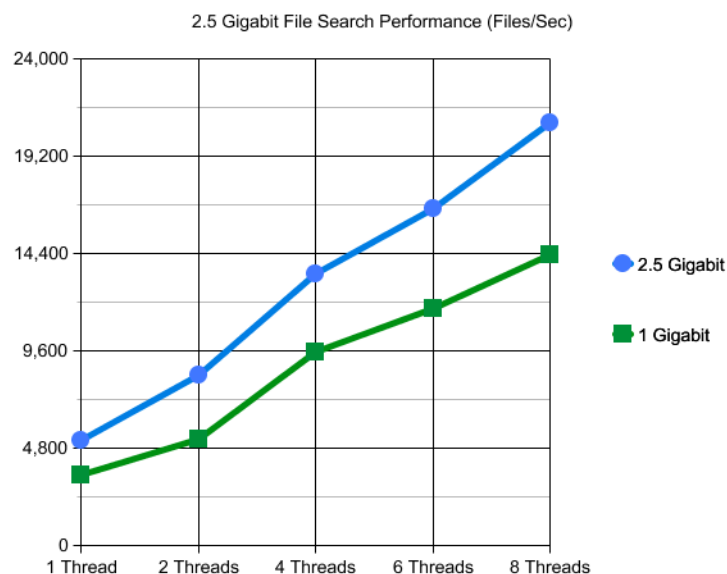


Searching file stored on a NAS storage device via a network is a more complicated task because the user needs to take into account the speed and the latency of the network. If the computer, on which VX Search is installed, is connected to the NAS storage device via a high-speed, low-latency network, the performance of the file search operations may reach up to 7,300 files/sec with one file search thread, scale up to 22,400 files/sec with four parallel file search threads and increase up to 32,100 files/sec with eight parallel search threads.

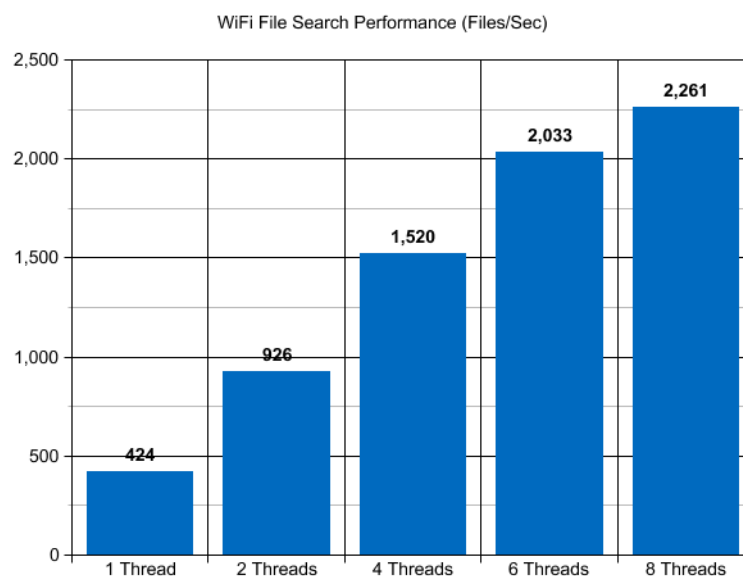


On the other hand, if VX Search will need to access network shares via the Internet or via a long-distance, high-latency network, the performance of the file search operations will be relatively slow. One of the options to increase the performance of the file search operations in such configurations is to set the 'High-Performance' directory scanning mode and increase the number of parallel file search threads to 16 or even 32 disregarding how many CPUs are actually installed on the computer.

Searching millions of files stored in one or more NAS servers may be a very time consuming operation and one of the ways to speed-up the file search process is to use a 2.5 Gigabit Ethernet network. With 2.5 Gigabit Ethernet the performance of the VX Search file search operations continues to scale up to 20,800 Files/Sec with 8 parallel file search threads, which represents a 44% improvement compared to the standard Gigabit Ethernet.

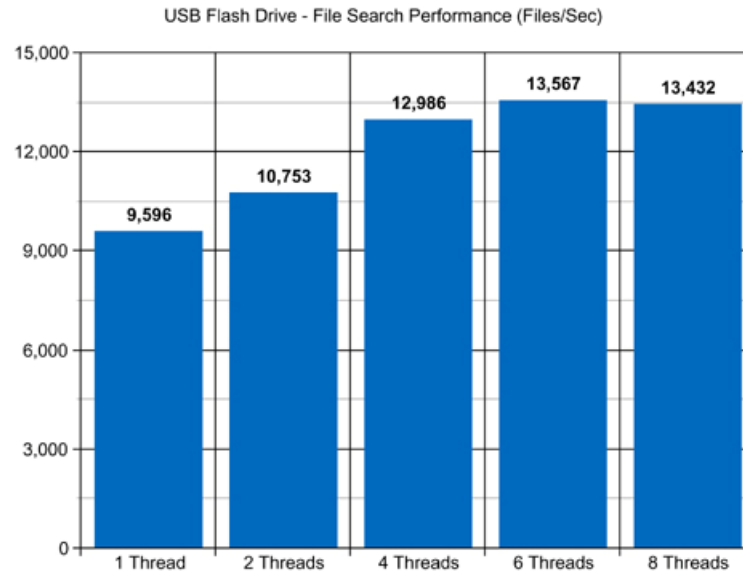


Due to a very wide adoption of laptops and NAS servers with built-in WiFi network interfaces, many users may consider searching files stored in NAS servers via the wireless network. But, the latency of the wireless network is much higher and therefore it will take much more time to complete the file search operation via the wireless network. The question is how much longer the user will need to wait and if it will save any significant amount of time to search files via a wired network.

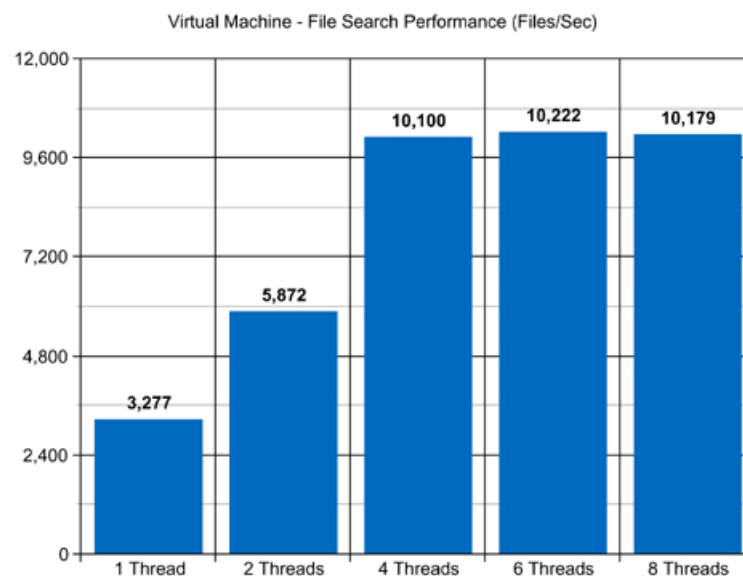


Based on our benchmarks, via a 5 GHz wireless network, VX Search reaches up to 424 Files/Sec with a single file search thread and scales up to 2,200 Files/Sec with 8 parallel file search threads, which is approximately 6 times slower compared to the standard Gigabit Ethernet and almost 10 times slower when compared to the 2.5 Gigabit Ethernet. So, if the user needs to search files in a NAS server with 1 million files or more, a low-latency Gigabit Ethernet or 2.5 Gigabit Ethernet is required.

Modern USB flash drives provide plenty of the storage space and are reasonably fast allowing one to store vast amounts of data for backup purposes. When searching files stored on a USB flash drive, VX Search can reach up to 9,500 files/sec with a single search thread. With two parallel search threads, the performance increases up to 10,700 files/sec, with four parallel threads the performance increases up to 12,900 files/sec and with six parallel file search threads the performance scales up to 13,500 files/sec.



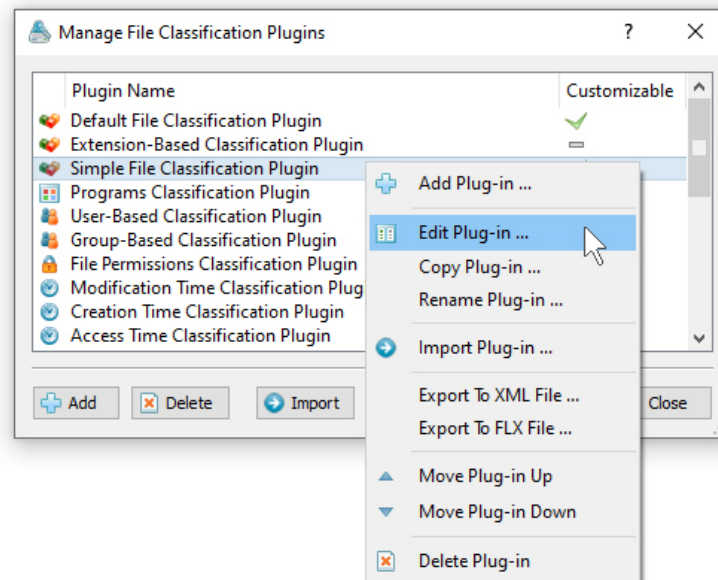
Today, modern IT environments widely deploy virtual servers and/or virtual workstations. Most of the popular virtualization platforms provide a high level of performance, but depending on the target hardware and software platforms, significant performance degradations are inevitable when a file search operation is executed on a guest virtual machine compared to the same file search operation executed directly on the host computer.



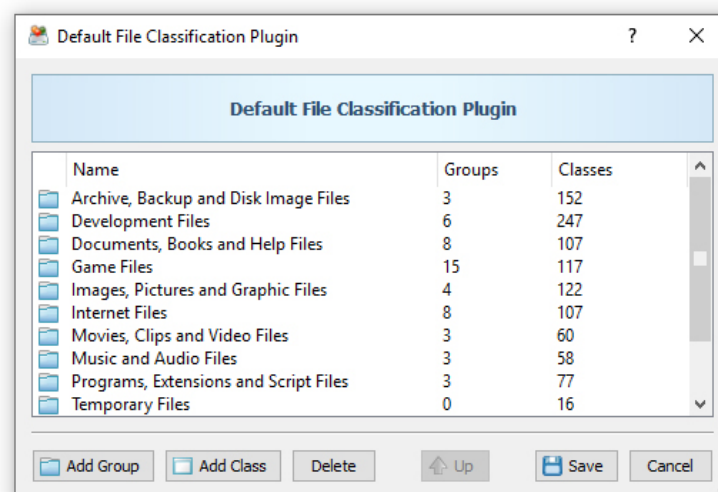
For example, when a virtual machine with 4 virtual CPUs is stored on an SSD disk and searching files stored on a virtual local disk drive, which is physically stored on the same SSD disk, the performance of the file search operations reaches up to 3,200 files/sec using a single search thread. With two parallel search threads, the performance of the file search operations scales up to 5,800 files/sec and with four parallel search threads, the performance of the file search operations increases up to 10,100 files/sec.

39 Managing File Classification Plug-ins

VX Search allows one to search files by the file type using the 'Default File Classification Plug-in', which is capable of recognizing more than 3,500 of the standard file types and formats. In addition, a number of advanced file classification plug-ins are available for registered users of VX Search Server and VX Search Enterprise.



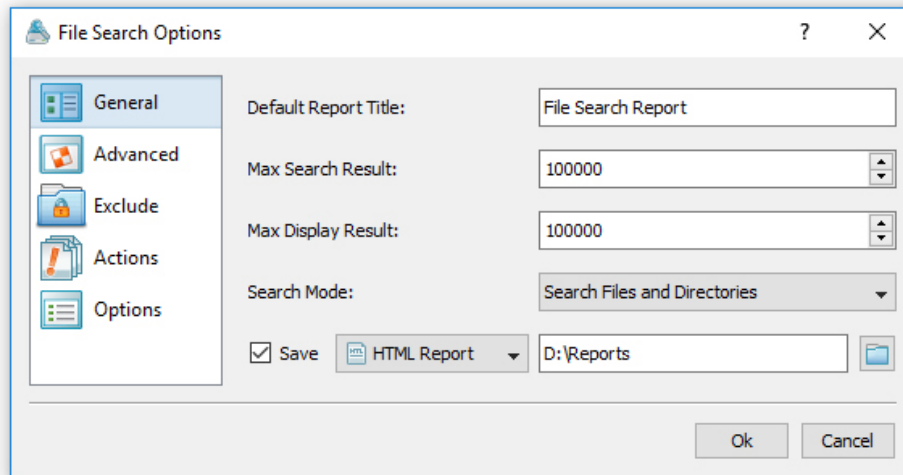
Finally, VX Search Server and VX Search Enterprise provide the ability to add user-custom file classification plug-ins and customize the built-in file classification plug-ins allowing one to search, classify and categorize files according to the user-specific needs and requirements. In order to add a custom file classification plug-in, select the menu 'Tools - Manage Plug-ins', press the 'Add' button, specify a unique file classification plug-in name and then use the file classification plug-in designer dialog to create your custom file categories and file classes.



Another option is to customize a built-in file classification plug-in by adding support for one or more additional file type or file categories. In order to customize a built-in file classification plug-in, select the menu 'Tools - Manage Plug-ins', select the required file classification plug-in item, click the right mouse button and select the 'Copy Plug-in' menu, specify a new plug-in name and then double click on the newly copied plug-in item to open the plug-in copy in the file classification plug-ins designer dialog.

40 Advanced File Search Options

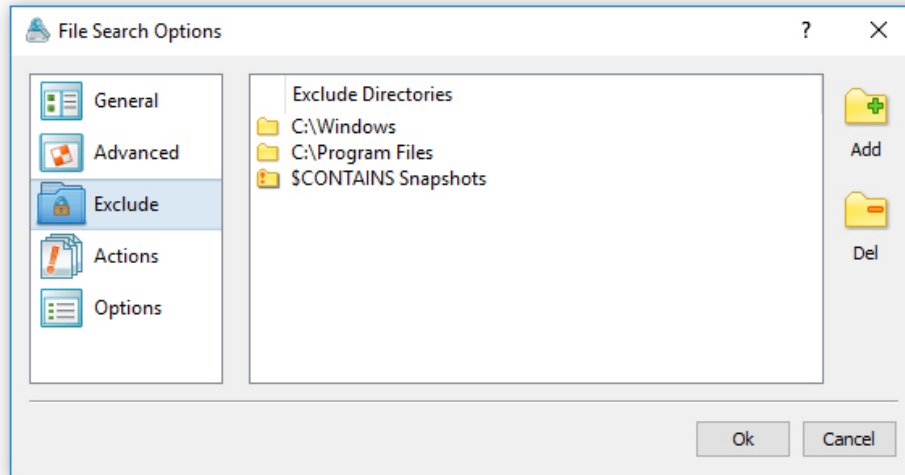
The advanced search options tab allows one to set the default report title, which is used for automated report generations, the maximum number of search results, the file scanning mode, the speed of the search operation and the number of processing threads to use.



In addition, VX Search Server and VX Search Enterprise provide the user with the ability to automatically generate reports, export results to an SQL database or send E-Mail notifications when the search operation finds a user-specified number of files.

41 Excluding Subdirectories from File Search

Sometimes, it may be required to exclude one or more subdirectories from the file search process. In order to add one or more directories to the exclude list, open the search profile dialog, select the 'Exclude' tab and press the 'Add' button located on the right side of the dialog.



Directories added to the exclude list will be excluded recursively including all files and subdirectories. In order to remove a directory from the exclude list, select the required directory and press the 'Delete' button. In addition, advanced users are provided with a number of exclude directories macro commands allowing one to exclude multiple directories using a single macro command.

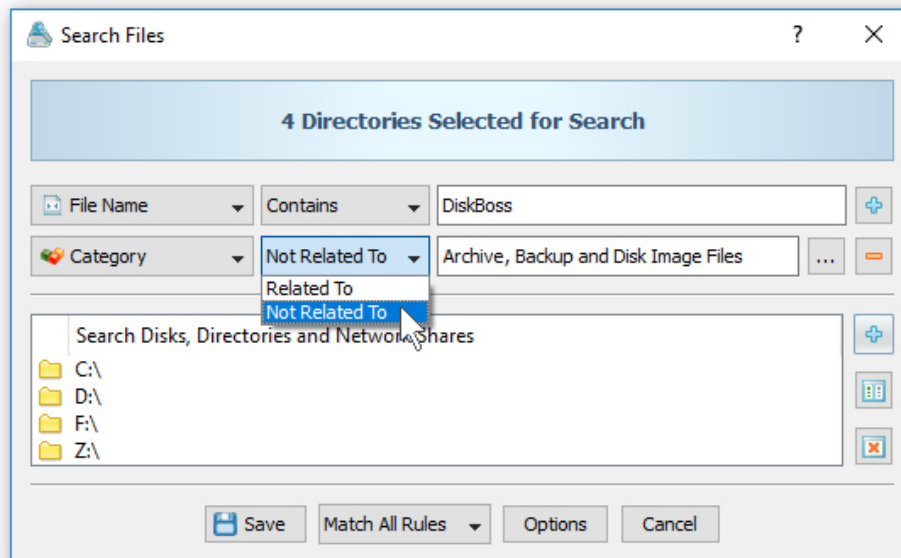
VX Search provides the following exclude directories macro commands:

- **\$BEGINS <Text String>** - this macro command excludes all directories beginning with the specified text string.
- **\$CONTAINS <Text String>** - this macro command excludes all directories containing the specified text string.
- **\$ENDS <Text String>** - this macro command excludes all directories ending with the specified text string.
- **\$REGEX <Regular Expression>** - this macro command excludes directories matching the specified regular expression.
- **\$DIRLIST <File Name>** - this macro command excludes directories listed in the user-specified text file.

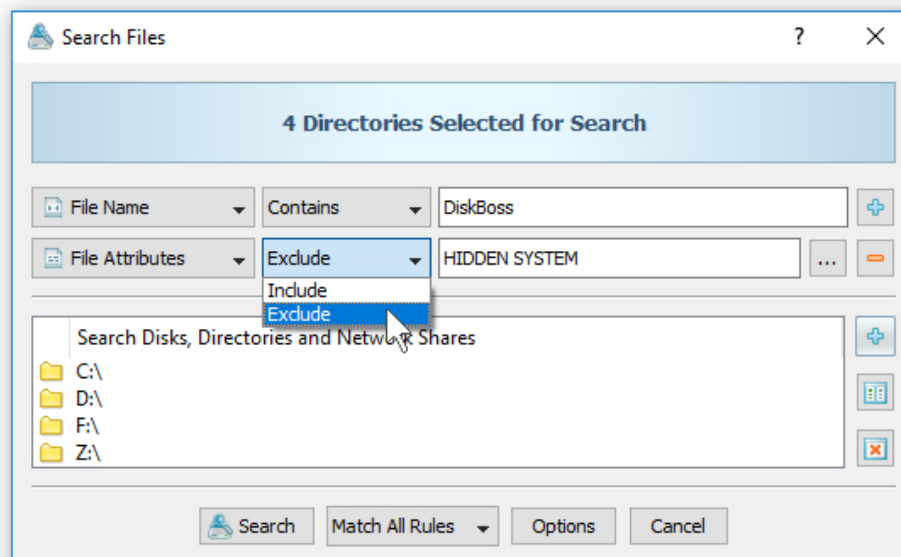
For example, the exclude macro command '\$CONTAINS Temporary Files' will exclude all directories with 'Temporary Files' at any place in the full directory path and the exclude macro command '\$REGEX \.(TMP|TEMP)\$' will exclude directories ending with '.TMP' or '.TEMP'.

42 Excluding Specific Files from File Search

Advanced users are provided with the ability to exclude specific files or file categories from the file search process. In general, all types of file matching rules provide positive operators, intended to positively match files, and negative operators, intended to exclude specific files or categories of files from file search results.



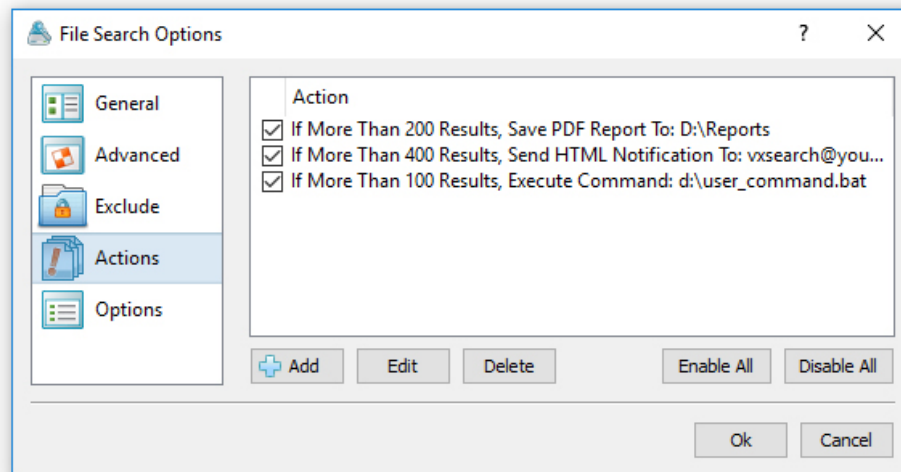
For example, let's assume that the user needs to search files by name, but exclude all pictures and image files from search results. In this case, the user needs to add a file name rule and a file category rule with the 'Not Related To' operator, which will exclude all types of images and pictures from search results.



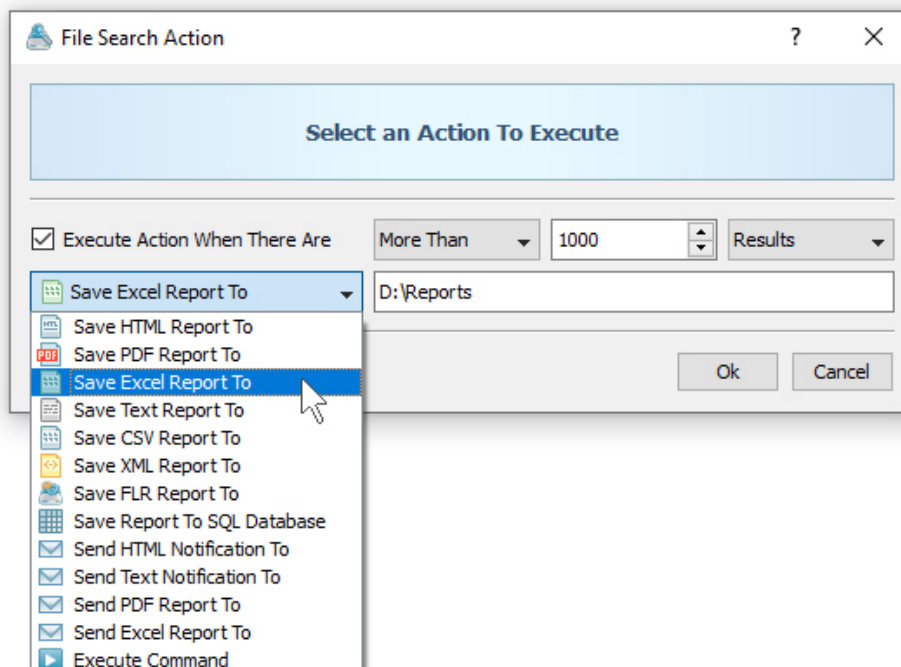
Similarly, in order to exclude all system and hidden files from search results, add a rule to match files by file attributes, select the 'Exclude' operator and select the file attributes that should be excluded.

43 Automatic Report Generation

In order to enable automatic report generation, open the search options dialog, select the 'Advanced' tab, enable execution of conditional actions, specify the number of search results or the search results disk size to trigger the action, select an appropriate report format and optionally specify the name of the directory or file to save reports in.

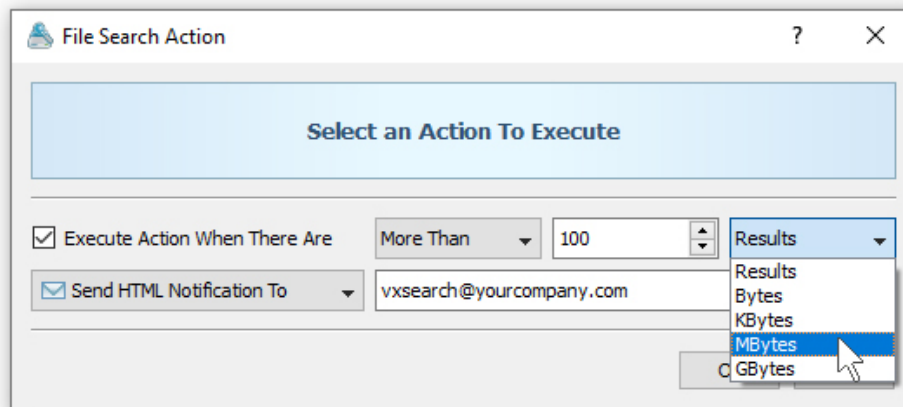


If the report file name is empty, VX Search will save report to the user's home directory with automatically generated file names containing the date and time of each report. If the specified action value is an existing directory, VX Search will save reports to the directory. Otherwise, the specified value will be used as the name of the report file and all reports will be saved to the same file overwriting the file with each new report.

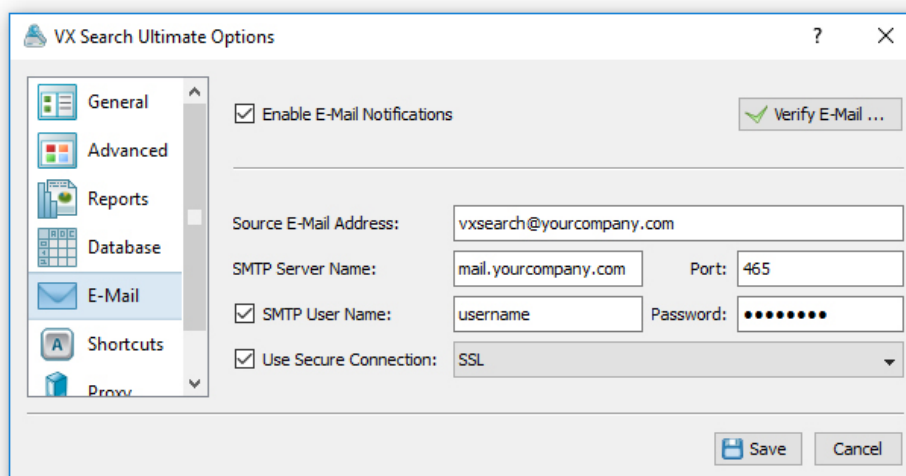


44 Sending E-Mail Notifications

VX Search Server and VX Search Enterprise provide the ability to send E-Mail notifications when a search operation finds a user-specified number of search results or the search results disk size. This feature is especially useful for periodic search operations performed automatically at specific time intervals and intended to detect specific types or categories of files in enterprise storage systems.



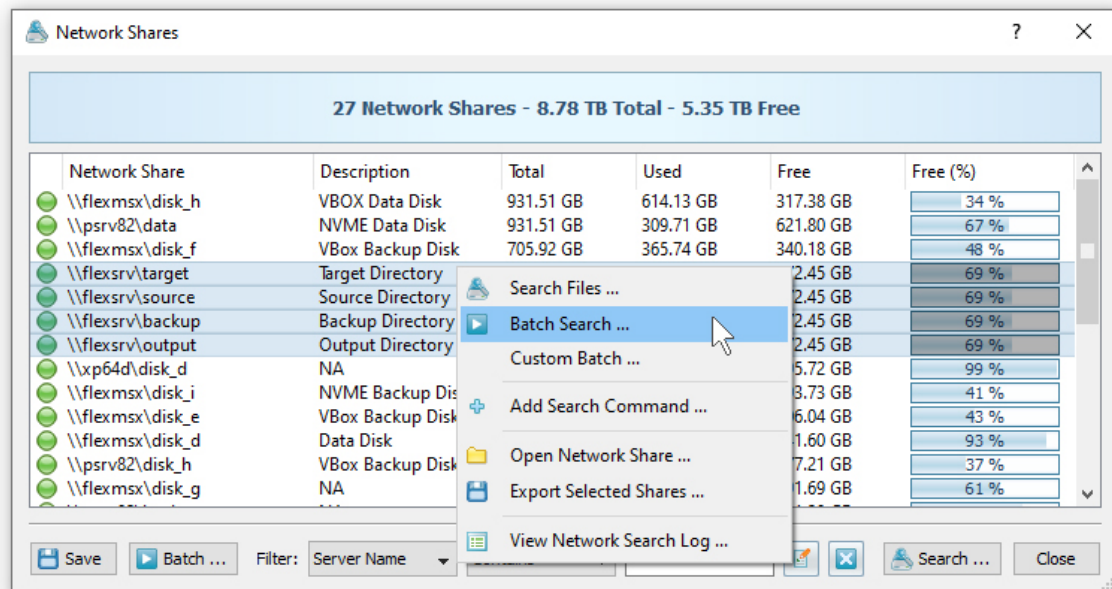
In order to enable E-Mail notifications for a search operation, open the search profile dialog, select the 'Advanced' tab, enable conditional actions, set the number of file search results to trigger the action, select the 'E-Mail Notification' action type and enter an e-mail address to send notifications to.



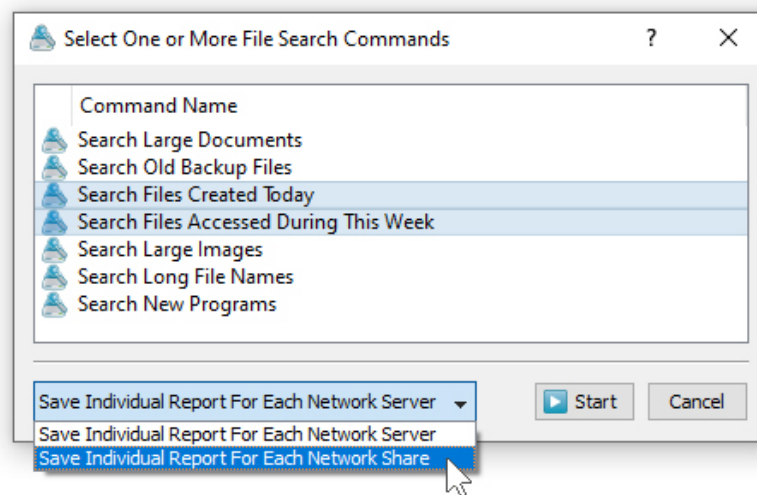
E-Mail notifications will be send using the SMTP e-mail account configured in the options dialog. In order to configure the SMTP account, open the options dialog, select the 'E-Mail' tab, enter the host name or the IP address of the SMTP server, enter the TCP/IP port number, enter the name of the user account, password and the source E-Mail address that should be used by VX Search in E-Mail notifications.

45 Batch File Search Operations

VX Search Server and VX Search Enterprise provide the ability to search the network, detect all network servers and NAS storage devices available on the network, execute one or more pre-configured file search commands on hundreds of network servers and NAS storage devices and generate an individual file search report for each network server, NAS storage device or network share.



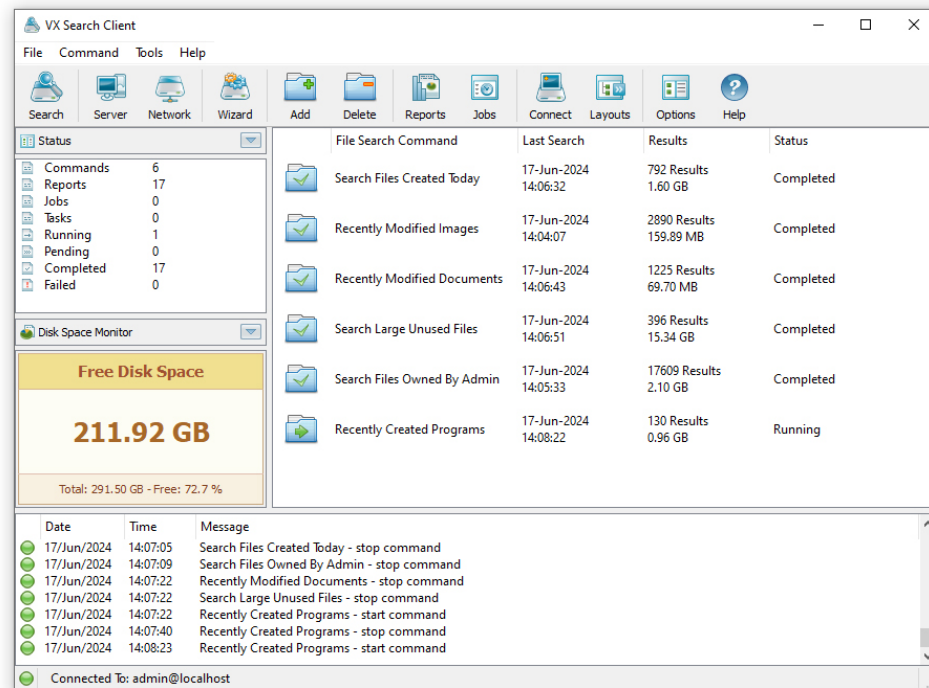
In the simplest case, open the VX Search client GUI application, press the 'Network' button located on the main toolbar, search all network servers and NAS storage devices on the network, select one or more servers, press the right mouse button and select the 'Batch File Search' menu item. VX Search will show a list of pre-configured file search commands allowing one to select one or more commands to be executed on all selected network servers and NAS storage devices.



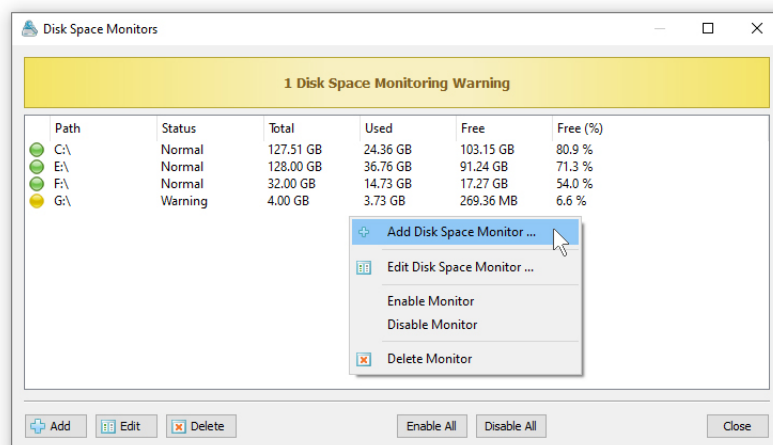
Depending on the selected batch file search mode, VX Search Server will save in the built-in reports database an individual file search report for each network server, NAS storage device or network share. Once the batch file search operation is completed, the user will be provided with the ability to open saved file search reports, review file search results, generate various types of pie charts and export reports to a number of standard formats including HTML, PDF, text, Excel CSV and XML.

46 Using Built-In Disk Space Monitor

VX Search Server and VX Search Enterprise include a built-in disk space monitor allowing one to monitor the free disk space in a number of disks, directories or network shares and provides the ability to send E-Mail notifications including file search reports showing recently created or modified files and/or execute custom actions when the amount of the free disk space drops below or rises above a user-specified limit.

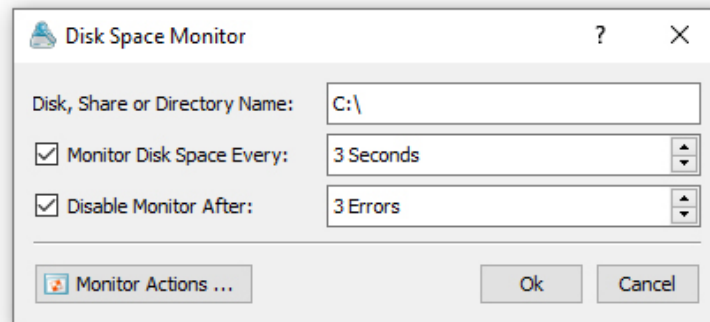


The disk space monitor can be displayed in any of the left-side tool panes of the VX Search client GUI application. By default, the disk space monitor shows the status of all local disks in the server. In order to open the disk space monitors dialog, double click on the disk space monitor tool pane. For each disk, the disk space monitors dialog shows the disk name, the total amount of the disk space, the amount of the free disk space and the disk status according to the configuration of the disk space monitor.

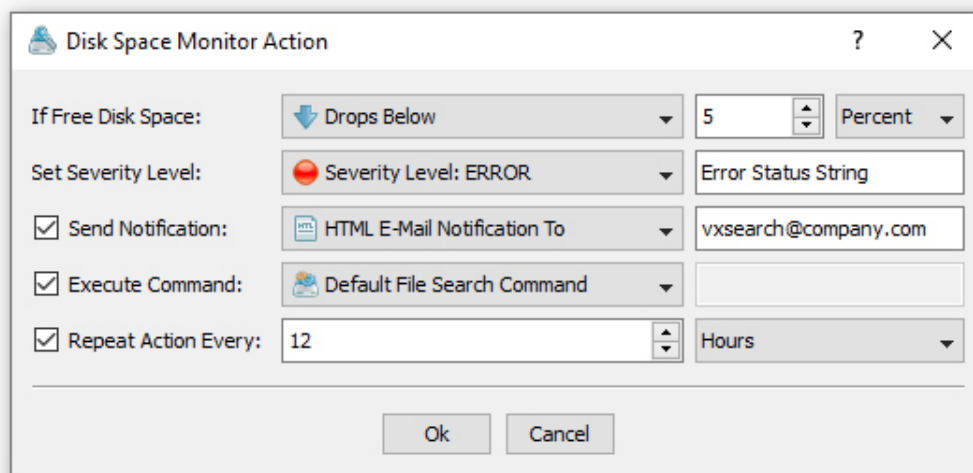


In order to add an additional disk or network share to the disk space monitor, press the right mouse button over the disk space monitor pane, specify the name of a disk, directory or network share to monitor and press the 'Ok' button. In order to change the configuration of a previously created disk space monitor, select the required disk item in the disk space monitor pane, press the right mouse button and select the 'Edit Monitor' menu item.

For each monitored disk, the disk space monitor allows one to control the disk space monitoring frequency, the maximum number of monitoring errors and disk space monitoring actions and/or E-Mail notifications. Sometimes, when monitoring the disk space usage in remote servers or NAS storage devices via the network, a network server or NAS storage device may be temporary offline due to unexpected connectivity or hardware problems. In this case, the disk space monitor will mark such a disconnected device as 'Offline' and continue to monitor the server according to the user-specified maximum number of errors. On the other hand, if a network server or NAS device was permanently disconnected from the network, the disk space monitor will disable monitoring of the disconnected server after the user-specified number of monitoring errors.



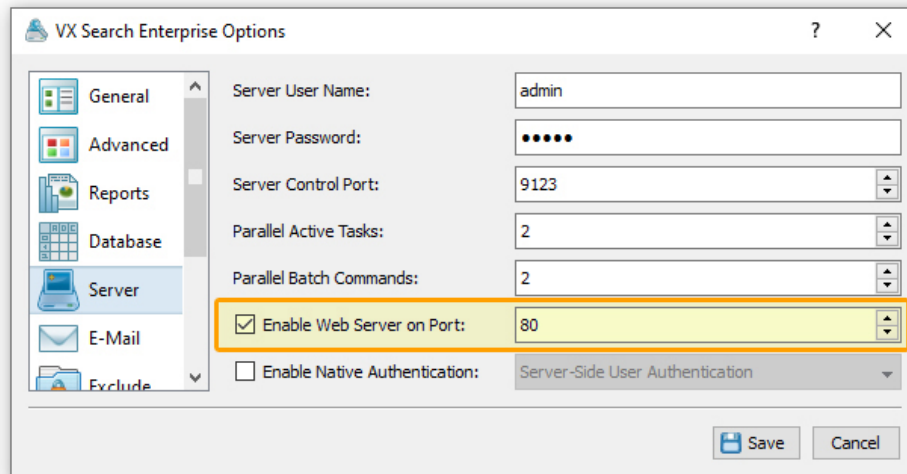
In order to automatically send an E-Mail notification and/or execute a custom action when the amount of the free disk space drops below a user-specified limit, the user needs to configure one or more disk space monitoring actions. Open the disk space monitor dialog, press the 'Monitor Actions' button, specify the minimum amount of the free disk space to trigger the action, select the 'Send Notification' option, select an appropriate notification format and specify an E-Mail address to send the notification to. In addition, in order to enable E-Mail notifications, the user needs to open the main options dialog, select the 'E-Mail' tab and configure an E-Mail server to use to send E-Mail notifications.



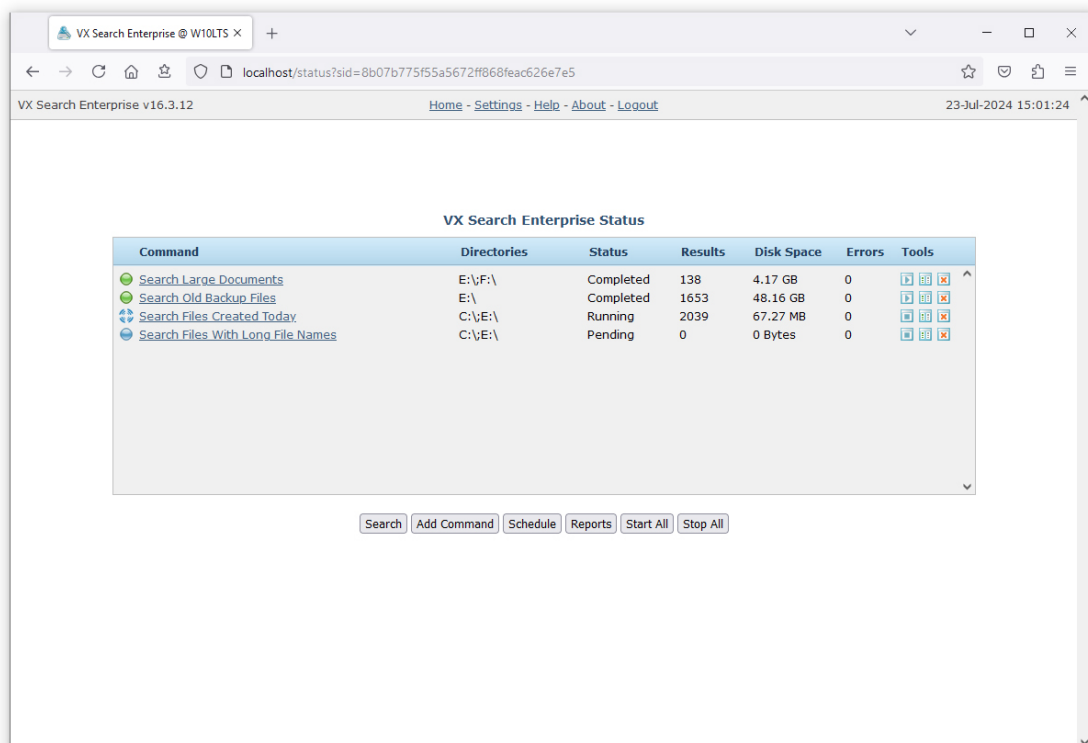
In addition to E-Mail notifications, the user is provided with the ability to automatically search files that were created or modified during the last 24 hours and send a file search report showing recently created or modified files to the specified E-Mail address. If the user selects the 'Default File Search Command' option, the disk space monitor will automatically create a file search command configured to search all files that were created or modified during the last 24 hours and send the file search results to the specified E-Mail address. If the user selects the 'Custom File Search Command' option, the disk space monitor will execute the user-configured file search command. Finally, if the user selects the 'User Command, Script or Batch File' option, the disk space monitor will execute the user-custom command, script or batch file.

47 Web Based Management Interface

In addition to the VX Search Server GUI application, VX Search Enterprise provides a web-based management interface, which can be used to control one or more VX Search Servers using a regular web browser.



In order to enable the web-based management interface, connect to the server using the VX Search client GUI application, open the 'Options' dialog, select the 'Server' tab and select the 'Enable Web Server' option. Now, open a regular web browser and type in the address bar the host name or an IP address of the server to connect to and login to the VX Search Enterprise web-based management interface using the default (**admin/admin**) user name and password.



The VX Search Enterprise home page shows the user-defined file search commands and allows one to perform file search operations, review file search results, generate various types of reports and schedule periodic file search operations.

48 VX Search Server Command Line Utility

In addition to the web-based management interface, VX Search Server provides a command line utility allowing one to control one or more VX Search Servers locally or via the network. The VX Search command line utility is located in **<ProductDir>/bin** directory.

VX Search Server Command Line Syntax:

vxsearch -server_show_commands

Shows file search commands configured in VX Search Server.

vxsearch -server_start_command <Command Name>

Starts the specified file search command.

vxsearch -server_start_all_commands

Starts all inactive file search commands.

vxsearch -server_stop_command <Command Name>

Stops the specified file search command.

vxsearch -server_stop_all_commands

Stops all active file search commands.

vxsearch -server_command_status <Command Name>

Shows the current status of a file search command.

vxsearch -server_command_errors <Command Name>

Shows process errors for a file search command.

vxsearch -server_delete_command <Command Name>

Deletes the specified file search command.

vxsearch -server_delete_all_commands

Deletes all configured file search command.

vxsearch -server_show_reports

Shows file search reports saved in the VX Search Server reports database.

vxsearch -server_export_reports -reports_dir <Directory>

Exports file search reports to the specified directory.

vxsearch -server_import_reports -reports_dir <Directory>

Imports file search reports from the specified directory.

vxsearch -server_archive_old_reports -reports_dir <Directory>

Archives old file search reports to the specified directory.

vxsearch -server_archive_all_reports -reports_dir <Directory>

Archives all file search reports to the specified directory.

vxsearch -server_delete_old_reports

Deletes old file search reports from the VX Search Server reports database.

vxsearch -server_delete_all_reports

Deletes all file search reports from the VX Search Server reports database.

vxsearch -server_status

Shows the current VX Search Server status.

vxsearch -server_debug_log

Shows the VX Search Server debug log.

Miscellaneous Commands:**vxsearch -v**

Shows the product major version, minor version, revision and build date.

vxsearch -help

This command shows the command line usage information.

Command Line Options:**-host <Host Name>**

Specifies the host name or an IP address of VX Search Server to connect to. If not specified, the command line utility will connect to the local host.

-port <Port Number>

Specifies the TCP/IP port to connect to. If not specified, the command line utility will connect to the default VX Search Server TCP/IP port 9123.

-user <User Name>

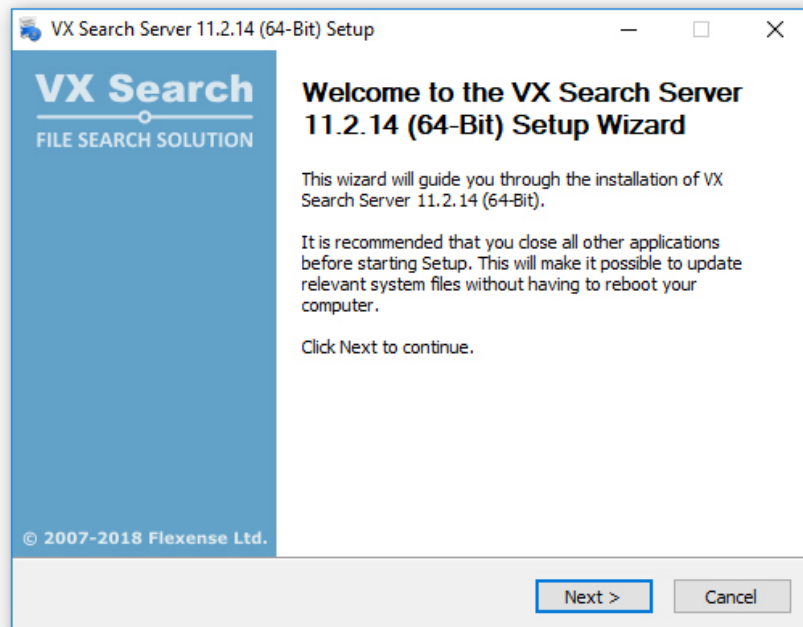
Specifies a user name to login to VX Search Server. If not specified, the command line utility will login using the default "**admin**" user name.

-password <Password>

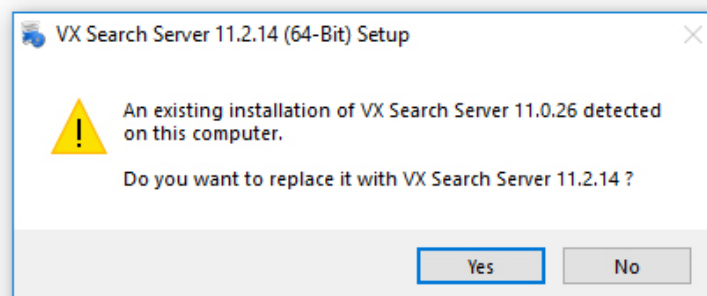
Specifies a password to login to VX Search Server. If not specified, the command line utility will login using the default "**admin**" password.

49 Updating VX Search Server

Flexense develops VX Search Server using a fast release cycle with minor product versions, updates and bug fixes released almost every month and major product versions released every year. New product versions and product updates are published on the product web site and may be downloaded from the following page: <http://www.vxsearch.com/downloads.html>.



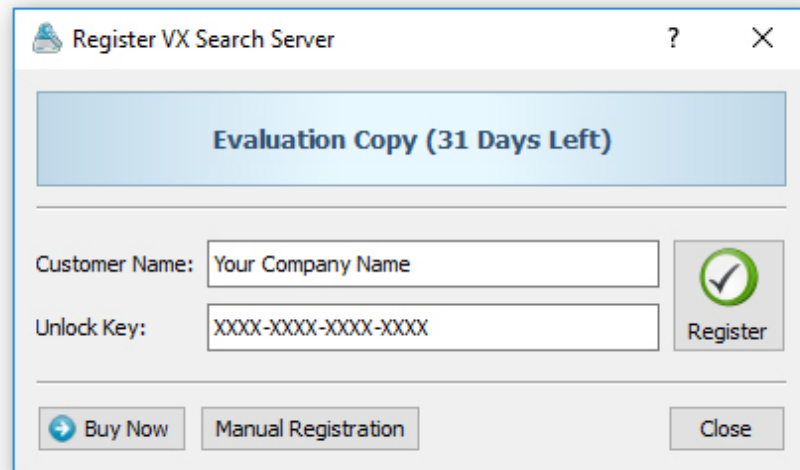
Due to the fact that the product is especially designed for servers running in production environments where stability is a major decision factor, VX Search Server updates should be manually installed by the user. In order to update an existing product installation, download the latest product version and just start the setup program.



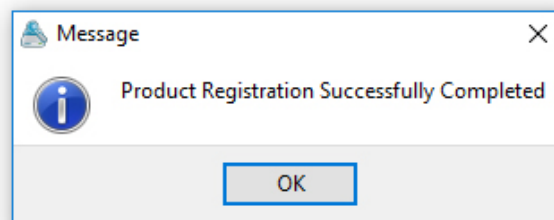
The VX Search Server setup program will properly shutdown the running VX Search service, update the product and restart the VX Search service after finishing the update procedure. All product configuration files, configured file search commands, file search reports and product registration will remain valid and there is nothing to reconfigure or manage after the update.

50 Registering VX Search Server

Within a couple of hours after purchasing a product license, the customer will receive two e-mail messages: the first one confirming the payment and the second one containing an unlock key, which should be used to register the product. If you will not receive your unlock key within 24 hours, please check your spam box and if the unlock key is not in the spam box contact our support team: **support@flexense.com**.



If the computer where VX Search Server is installed on is connected to the Internet, login to the VX Search server (default user name and password: **admin/admin**) using a standard web browser, click on the 'About' link located on the top menu bar, press the 'Register' button, enter your name or your company name, enter the received unlock key and press the 'Register' button.



If the computer is not connected to the Internet, press the 'Manual Registration' button, export the product ID file and send the product ID file to **register@vxsearch.com** as an attachment. Within a couple of hours, you will receive an unlock file, which should be imported in order to finish the registration procedure.

51 Supported Operating Systems

- Server 2025
- Server 2022
- Server 2019
- Server 2016
- Server 2012 R2
- Server 2012
- Server 2008 R2
- Server 2008
- Server 2003
- Windows 11
- Windows 10
- Windows 8.1
- Windows 8
- Windows 7
- Windows Vista
- Windows XP

52 System Requirements

Minimal System Configuration

- Supported Operating System
- 2 GHz or better dual-core CPU
- 4 GB of system memory
- 100 MB of free disk space

Recommended System Configuration

- 64-Bit Operating System
- 2+ GHz quad-core CPU
- 4 GB of system memory
- 200 MB of free disk space

VX Search Enterprise System Configuration

- 64-Bit Operating System
- 2+ GHz quad-core CPU
- 8 GB of system memory
- 1 GB of free disk space