HPE 3PAR/PRIMERA

PEAK/BOSS

S3MFT

S3 "Multi-Function Tool"

User's Guide

Version 4.0304

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Contents

1. READ ME FIRST

- V4.0245: default date-time for –efdt has been changed to now be 24 hours into the future from the current system time when S3MFT is executed.
- V4.0245: the use of a log file has been removed; users will be able to use redirection/piping to control outputs on STDOUT and STDERR if they so choose.
- For further and additional changes see **V4.0245** in the "Fixes and New Features" section at the end of the document.

2. Introduction

The HPE 3PAR/PRIMERA Infrastructure team has been monitoring the influx of 3PAR/PRIMERA telemetry data for some time and realized that there was no cost effective way to continue utilizing NFS shares to share this telemetry data out to us, the end users. There is just too much data being sent back to HPE.

To address the problem the HPE 3PAR/PRIMERA Infrastructure team settled on in house AWS S3 solution.

As a result of this decision, a "tool", S3MFT, was necessary to aid us, the end users, in finding the data we need, display it and begin searching the data.

S3MFT will run on both WINDOWS and Linux. The only real requirement is a network connection to the HPE internal network.

Given that S3MFT will run on both Linux and WINDOWS, you will not necessarily have to leverage both WINDOWS and Linux to find, retrieve, and/or search the data. As long as you have a network connection to the HPE Intranet, you will be able to access the AWS S3 solution from either OS!

This is a big change for WINDOWS users who used to have to log onto a Linux server to access the data!

At the time of this writing, there is only a command line interface available.

I would also like to thank the following co-workers for their time, patience, assistance, feedback and work on this tool...

Paul Carlson
Shan Choudhury
Steven Fong
Kelly Graham
Mike Grigg
Dan Kortenhoeven
Preston Mitchell
Jeremy Nguyen

Thank you,

Gary Sachs
3PAR/PRIMERA BOSS

21-Aug-2020

3. Performance

S3MFT V4.0230 underwent a performance enhancement. S3MFT has been updated to take advantage of additional multithreaded processing. While the downloader routine used by S3MFT was taking advantage of multithreading, it was discovered that further multithreading was possible in other aspects of processing in S3MFT.

S3MFT has established defaults for the worker queues based on the three (3) supported OS's. These defaults are a best effort, they may not address every situation. These defaults may be adjusted in the future.

Before describing how to make adjustments to the worker queues, users need to be aware of several details that will impact performance of S3MFT when deciding on how much adjustment is to be made...

- A system's performance varies and these variations will continue to impact S3MFT worker queues.
- Focus on the overall completion time, not the individual file operations.
- If activities involve the local filesystem be mindful of that aspect because it has the potential to be a bottleneck.
- "File" size and/or count do play a role due to possible buffering depending on the activities.
- Since S3MFT does utilize the network, the network has the potential of impacting performance.
- Do not try to make adjustments for every situation.
- You may need to make several attempts to find the optimal setting for your needs.
- Be patient.

There are two (2) attributes that S3MFT uses to configure the worker queues:
1. The number of workers, this represents the number of threads that will be created to perform the work.
2. The queue length, this represents the number of entries that will be allowed on the work queue from which the worker threads read.

The goal being to keep the workers busy and not idle while the length of the queue is minimal.

The default values are as follows:
- For all OS's the default queue length is 5000, this be adequate for most purposes.
- The number of workers:
    - Windows: 4
    - macOS(darwin): 4
    - Linux: 16

The minimums and maximums:
- Minimums, this applies to all OS's:
    - Workers: 1
    - Queue Length: 50
- Maximums, this applies to all OS's:
    - Workers: 100
    - Queue Length: 10000

To make adjustments an s3mft_init.json file needs to be created:

    s3mft -json

You will find s3mft_init.json in your home directory:

- On Linux and macOS: the $HOME environment variable.
- On Windows, the %USERPROFILE% environment variable.

Use any text editor to open the file, the data within is in JSON format. Please only change the field values that are appropriate. Please leave the "name" field untouched. The "queue" field represents the worker queue length and the "count" field represents the number of worker threads. Once you are satisfied with your changes save your work, do not move the file from your home directory.

You can find rudimentary performance data for the worker threads in the s3mft.log file which is created in your current working directory. Please bear in mind that not every activity that S3MFT executes utilizes the worker threads. Primarily, S3MFT will use worker threads for searching, downloading, decompressing and displaying "files".

4. Installation

The S3MFT software is a standalone executable with an executable available for WINDOWS, Linux or macOS.

There is a zip file, s3mft_Vn.nnnn.zip, containing the executable for each of the three (3) aforementioned operating systems. This zip file is available from the following locations:

- /share/common-scripts/ERT/ - accessible via the CXO servers
- \\fusion2.cxo.storage.hpecorp.net\Public\tools
- The S3 YAMMER group:
  - https://www.yammer.com/hpe.com/#/groups/42532782080/files
- The S3 sharepoint:
  - https://hpe.sharepoint.com/teams/EngLab/UserPortal/SitePages/S3-Object-Storage.aspx

Always select the zip file with the highest version, please.

The executables will be available within the respective folder named for the operating system.

As stated, the executable is standalone, extract and/or copy it to a directory of your choice.
Make sure your OS can find it and you are ready to go!

macOS Users please see below for further details…

02-Feb--2021

Additional notes for macOS users

Once you copy the macOS version of the executable to the desired directory you will need to ensure that the permission is set to 755 on the executable.

Should you encounter the following exception when executing s3mft…
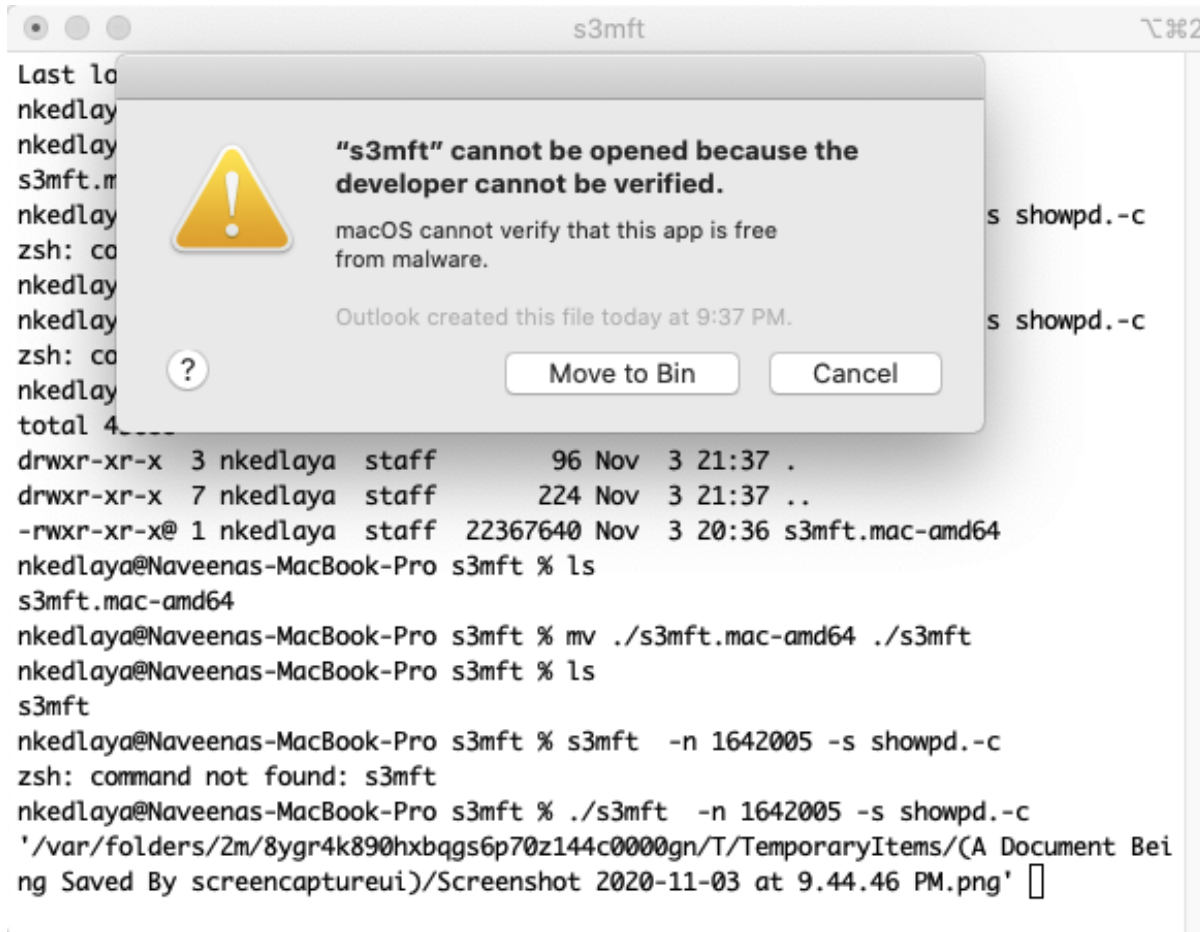
Use the following workaround:

1. In Finder on your Mac, locate the app you want to open, s3mft.
2. Control-click the app icon, then choose Open from the shortcut menu.
3. Click Open.
4. The app is saved as an exception to your security settings, and you can open it in the future by double-clicking it or executing from cli, just as you can with any authorized app.

Ref: https://github.com/hashicorp/terraform/issues/23033

Thank you Naveena Kedlaya for providing these macOS instructions.

5. Usage Considerations

S3MFT, as has been stated, a tool to assist in accessing, displaying, searching and locating STaTS telemetry data with the AWS S3 solution. Essentially the filesystem directories and NFS shares for STaTS telemetry data will no longer be updated starting around the February 2021, the HPE Infrastructure team will be updating all of us regarding this as they finalize the details. They are making great efforts to ease this transition.

Please be aware that STaTS telemetry data that exists on the NFS share will remain there for some time after the cessation of updates.

As of the writing of this document the HPE AWS S3 solution is receiving live updates of the STaTS telemetry data! The HPE AWS S3 solution is available for use… NOW!

The HPE AWS S3 has full production STaTS telemetry data going back to May 2020.

With our AWS S3 solution the concept of directories no longer exists, you cannot CD to a location and access the data. A true file does not exist, AWS S3 will provide file objects that exist in buckets.

A bucket simply put is just that a bucket where file objects are organized. You can think of a bucket as a database table. In the HPE AWS S3 scheme of things, the buckets are organized by year and month, somewhat similar to the NFS shares. The bucket names employed for the STaTS telemetry data have the following convention for naming: "stats-YYYY-MM", where "YYYY' represents the four (4) digit year and "MM" is the two (2) digit month, right justified and zero filled. File objects are assigned to a bucket based on their creation date in HPE AWS S3.

It should be pointed out that there is an aberration with regards to buckets and the creation time of the file object. The aberration occurs on the last day of a month rolling over into the first day of the next month, some file objects for the last day of the month will be assigned to the bucket of the new month. This aberration is due to the fact that the creation time is based on GMT time.

Within the buckets the file objects are given a "key" name that looks similar to the file system path that we are all used to: vendor.product/serialnumber/filetype/filename. So, for the serial number CZ3813VV23 you would see the following describing an evtlog file object:

3PAR.INSERV/CZ3813VV23/evtlog/evtlog.200824.144426.debug

Breaking this down…

Vendor: 3PAR
Product: INSERV
Serial#: CZ3813VV23
File Type: evtlog
File Name: evtlog.200824.144426.debug

The vendor, product, file type and serial number fields are four of six data items used to search for data in HPE AWS S3. The other two data items are file date-time and the creation date-time.

The file date-time data is the date-time part of the filename, so in the example above, the file date-time would be "200824.144426" and it is this field that is referenced when the switches "-sfdt" and/or "-efdt" are utilized in a search or by default when neither of these switches are present. By default, in the absence of "-sfdt/-efdt", the start file date-time is twenty-one (21) days prior to the current day and the default end file date-time is set to 24 hours in the future from the current system time at the execution of the command.

The creation date-time is primarily foreseen to be used by processes and/or procedures that will be ingesting the HPE AWS S3 data into other databases and/or repositories, therefore its usage is currently undocumented.

As was pointed out above and discussed in the command line switches below, there are other vendors" and products present in the HPE AWS S3 solution, as an example the 3PAR (vendor) SP (product) data. By default, S3MFT uses 3PAR as the default vendor and both INSERV and SP as the default products.

Usage Warning

Many efforts were made to try and prevent search requests from running amok.
However, not every conceivable combination is addressed.
So, please be mindful of your requests... depending on what you specify your search request may take some time to process and may return a lot of data!

Downloading

As of V3.0180, when actually downloading the contents of a file object to your system into a file, if you do not use **– outdir** to specify a directory location, the contents will be written to a file in your current working directory. So, please be mindful of your disk space usage and clean up after yourself. If disk space utilization becomes an issue due to a lack of respect, the pre-V3.0180 behavior will be re-implemented.

Time Zone Considerations

Since S3MFT does not look at "time" related data in the contents, it is only concerned with "time" when searching for file objects. Several users have reported a minor problem when conducting searches using "-sfdt" and **not** specifying "-efdt". The problem relates to how the default value for "-efdt" is calculated, which nothing more than default to the current date and time that S3MFT is executed on your current system. The problem observed when executing the same command on two (2) different systems that are in two (2) different time zones, two different times are calculated for "-efdt", if "-efdt" is not provided. The differing "-efdt" times will result in generating almost identical lists, the problem is one list may display more files than the other due to the different end times specified for the search. To avoid this issue between machines please specify "-efdt" with a value large enough to cover the time zones differences between the machines, usually "-efdt=tomorrow" or "-efdt="+24h"" should work.

IMPORTANT NOTE:

Super, Really Important Time Zone Reminder!

As mentioned above, please keep in mind how buckets are populated... file objects are assigned to buckets based on the time that the file objected is ingested into S3, again this ingestion time is UTC based. The ingestion time is also referred to as the creation time.

As a result of having the creation time UTC based and the file object's file name containing a date time based on the array's local time zone, some files are going to end up in a bucket not associated with the date time in the file object's file name. This is only problematic at the end of the month rolling over into the next month.

Therefore, if searching for data and/or files where the start and/or end date time may involve the last day or first day of a month, please ensure your search request extends the start and/or end date time of the search, add an extra day, accordingly!

6. Command Line Options

S3MFT has a myriad of command line options that should address most of our needs.
The goal of this tool is to help you navigate AWS S3 and find the telemetry data you are searching for. Not only will S3MFT help you find the data you seek, it will download the data and for data which is ASCII, S3MFT will display it to your screen and provides the ability to search that data as well.

-a
-a is a switch that was utilized by the showfield tool, depending on the version you are used to, that was used as a short hand to specify the following file types:

- alert
- config
- event
- environ
- fabric
- hostconf
- memlog
- perform
- status

-a is available only when using the "-s" switch for executing showfield style searchs.

-base "<tpd-version>"
Use –base to select arrays with the specified base version. To specify a list of base versions, use a comma separated list enclosed in quotation marks.

-bdump
The use of –bdump is restricted to processing a single file. Use –bdump when processing binary data to STDOUT when redirecting and/or piping the data. –bdump forces S3MFT to display all messages, error or otherwise to STDERR to prevent contamination of the binary data being displayed to STDOUT.

-bucket "<bucket-name>"
A bucket is AWS S3 construct as a way to group similar related data. For the HPE 3PAR/PRIMERA STaTS data a bucket represents the year and month the data was loaded into the HPE AWS S3 "database".

On occasion you may need to specify a bucket and/or a list of buckets in an effort to locate the data you want. The format of the bucket names employed by HPE is: "stats-YYYY-MM"

S3MFT will automatically generate a list of buckets for you based upon the start and/or end dates you may provide or the default start and end dates. Should you provide a list of buckets, the list needs to be comma separated and enclosed in quotation marks.

-class | N "<class>"
Use –class, -N is another showfield carry over, to look for data relating to a specific array class. Valid classes names are:

- 20000
- 9000
- 8000
- 7000

- F
- S
- T
- V
- PRIMERA-MERLIN
- PRIMERA-MINOTAUR
- PRIMERA-ALL
- 3PARONLY

Please bear in mind that depending on the class of array chosen the search can take some time, the larger the class the longer the time to find the data.

-D <numeric-value>
-D is based on the –G switch which is from showfield. –D is used to indicate how many of the most recent files based upon date to select. The date selection is strictly date, **not** date and time, this is a very subtle distinction. -D is to be used with either the –T switch or the switches -sfdt and/or –efdt.
NOTE: -D is only applicable for use with the "-m" or "-s" switches.

As an example...
If you were to search for evtlogs for a specific array that span 7 days, you could be looking at 144 files, since evtlogs are sent back once an hour for an array. But let us say further that you only needed to look for and/or search the last 3 files for each day, use –D 3, to accomplish this task.

-dlmaxsize <numeric-value>
Use –dlmaxsize to set an upper bound on the file size allowed to be operated on when it comes to a buffer operation, such as displaying data to STDOUT. By default dlmaxsize is 1GB, the maximum is 4GB.

-dx
-dx is to be used when you wish to have S3MFT decompress and/or extract data from various files that are sent home as gzip, bzip2 and/or tar balls. Use –dx in conjunction with the –so or –fo switches.

When using –dx with –fo, the original file object will be downloaded to disk. S3MFT will then determine if the file downloaded is in the gzip or bzip2 formats, if so S3MFT will then decompress the file to a possible temporary file on disk. If the original file is a gzip file containing a file, then the "temporary" file will be that file and S3MFT will not process the "temporary" file any further. Should the "temporary" file contain data indicating a tar ball, S3MFT will then process the "temporary" file and extract the tar ball contents. If the original file is a tar ball, then S3MFT will extract the contents of the tar ball. Should the original file not be a gzip, bzip2 or tar ball, S3MFT will do nothing more with the file. It is important to note that S3MFT will not decompress those files extracted from a tar ball that may be compressed data.

When –dx and –so are indicated, S3MFT does its work in memory rather than with temporary files. The same rules for decompression and/or extraction still apply. The major difference being that should the final buffer be a file that is ASCII or binary, it will be displayed to STDOUT. S3MFT will not display those files extracted from a tar ball to STDOUT. When using –dx with –so, be mindful of the file object size and your memory.

-efdt "<datetime>"
When wanting to search and/or select data based on date-time criteria, -efdt may be used to specify an ending date-time. The date-time specified with –efdt will be used as an inclusive compare against the date-time specified in the file objects name.

If the file object is

   3PAR.INSERV/SGH623YH3P/config/config.200617.051351.0001

the file date is "200617.051351" and will be used in date comparison.

See the section DATE-TIME FORMATS below regarding valid date-time formats that may be employed with –efdt.

-fh
The -fh flag is to be used with the -filename switch when "file" header information is to be displayed prior to "fetching" the file object.

-fhb
The -fhb flag is to be used with the -filename switch when brief "file" header information is to be displayed prior to "fetching" the file object. Brief file header information consists of the bucket name, file name and the size of the file.

-fhbo
The -fhbo flag provides the same information as the –fhb switch, the difference being that the file will not be fetched!

-fho
The -fho flag is to be used with the -filename switch when "file" header information is to be displayed only! The file object will not be "fetched"!

-filename "<s3-filename>|@<filename>"
Use -filename to display the contents of a particular file. Enclose <s3-filename> in quotation marks (").Valid formats allowed:

> stats-2020-04|3PAR.INSERV/1202222/evtlog/evtlog.200401.031028.debug
> 3PAR.INSERV/1202222/evtlog/evtlog.200401.031028.debug
> evtlog.200401.031028.debug *(*)*
>
> * This filename format is missing 3 required items of information needed to process this filename:
>
> o Serial number
> o Product
> o Vendor
>
> This will require the use of following switches to provide the necessary information should an error arise:
>
> –n to specify the serial number
> -product to provide a specific product
> –vendor to indicate a specific vendor

"-filename" will also accept as input a text file listing filenames, where each individual filename must appear as a separate line in the text file. On the command line when specifying a text file as input, the file name must be preceded by the at-sign (@) and the designation needs to be enclosed in quotation marks ("), I.E. –

> s3mft –n "@c:\test\mylistoffiles.txt -text "normal"

WARNING:
    Be careful combining with the "-so" switch S3MFT will output file objects less than 100MB to STDOUT regardless of the file contents. This means you could output binary data to STDOUT!
    Be very, very careful!

-filetype | p "<filetype[,filetype...]>"
Use -filetype to display specific file types, I.E. - config, insplore, etc.
A list of file types may also be provided in a comma separated list and enclosed in quotation marks   (").

By default, S3MFT does not search for specific file types when the –filetype switch is not provided. However, S3MFT will use a default list of file types when using the "-s" switch, when –filetype is not specified, this is to provide compatibility to the functionality of "showfield".

-fnp
Enable prefixing filenames with the string "array_<serial#>_" when downloading "files" to disk. The serial number, "<serial#>" will be populated automatically.

-fo
Forces S3MFT to write fetched file contents to a file when -filename is specified.
The filename used will be that of the being fetched.

If -fo is used with various other switches that would display a list of files, then S3MFT will make an effort to download those files it lists.

-G <numeric-value>
-G is used to indicate how many of the most recent files to search through based on the file type or file types provided.
NOTE: -G is only applicable for use with the "-m" or "-s" switches.

-H
Use this flag to force the display of the standard "showfield" headers.
Using the "-s", "-text" or "-regex" switches by default will suppress the standard "showfield" from being displayed.

-h
This flag should be used to display a prefix which contains the serial number, the file name and line number of the record that satisfies the search via the "-text" or "-regex" switches.

-i
This flag should be used when a case insensitive match is desired when using the "-text" or "-regex" switches.

-itgexclusive
Use –itgexclusive to restrict searches to the ITG bucket _only_.

-itginclusive
Use –itginclusive to include the ITG bucket in the list of buckets to search.

-jsoninit
Use –jsoninit to generate the s3mft_init.json file in your home directory. The generated file will contain the current worker count and queue length values that S3MFT will use. Should you decide to go back to default values just delete s3mft_init.json from your home directory. –jsoninit may be used at any time alone or with any other switches.

-listbuckets
The -listbuckets switch will display the available buckets within the HPE S3 environment.

-listfiletypes
The -listfiletypes switch will display the available file types within the HPE S3 environment.

-lstar
If using –dx, use –lstar to list the contents of any tar ball that may be present without extracting the contents of that tar ball.

-m
List all the metrics recorded within the selected file type. –m requires either a serial number (-n) or a filename (-filename).
Note: -m and -s are mutually exclusive.

-model "<model>"
 Use -model to select arrays of a specific model.

-n "<array serial number| SP name>|@<filename>"
The -n switch is used to indicate an array serial number or SP name on which to search. "-n" will also accept as input a text file listing filenames, where each individual filename must appear as a separate line in the text file. On the command line when specifying a text file as input, the file name must be preceded by the at-sign (@) and the designation needs to be enclosed in quotation marks ("), I.E. –

            s3mft –n "@c:\test\serialnumbers.txt -stl

-O
Use –O to disable the displaying of the "showfield" related headers when used in conjunction with –m, -s, -regex or –text.

-outdir
Use "-outdir" to specify an alternate output directory. By default output will be written to your current working directory.
-product
By default, all searches will be made using the product of "INSERV,SP".
Valid product names (vendor):

        INSERV (3PAR)
        SP   (3PAR)
        SSC   (3PAR)

        RMCVSA   (HP)
        STOREALL   (HP)
        STOREONCE   (HP)
        STOREONCEVSA (HP)
        STOREVIRTUAL (HP)

        STANALYZE   (ST)

-psgenerate
Use -psgen when you need to generate a pre-signed URL to a document.

-psgexpire
By default a pre-signed URL has a time limit of 15 minutes, use –psgexpire to specify a different time limit from 1 second to 7 days. You can use the following values:

    daysend
    tomorrow
    +|-x[smhd] - Specify a delta of plus(+) or minus(-) X seconds(s) or
        minutes(m) or hours(h) or days(d)

-quiet
Use -quiet to suppress the array/SP information output when a serial number has been specified with the -n switch.

-regex="<regex-expression>"
When wanting to search file objects content utilizing regular expression patterns use "-regex", should a match occur the record will be displayed.
"-text" and "-regex" are mutually exclusive.

-s "<metric-heading>"
-s is a "showfield" switch that should be used with "files" that contain outputs like "showpd", "showvv", etc. In order to display the block of data. When specifying a "metric" do not include spaces, use a period (.) to indicate a space, I.E - If you are looking for "showpd -c", use showpd.-c for your search to work around shell expansion getting in the way.
–s requires either a serial number (-n) or a filename (-filename)
Note: -s and -m are mutually exclusive.

-sfdt "<datetime>"
When wanting to search and/or select data based on date-time criteria, -sfdt may be used to specify a starting date-time. The date-time specified with –sfdt will be used as an inclusive compare against the date-time specified in the file objects name.

If the file object is

    3PAR.INSERV/SGH623YH3P/config/config.200617.051351.0001

the file date is "200617.051351" and will be used in date comparison.

See the section DATE-TIME FORMATS below regarding valid date-time formats that may be employed with –sfdt.

-so
Use –so to direct S3MFT to display a file objects content to STDOUT.

-stall
Use –stall to locate the buckets that contain data for the serial number supplied. –stall requires a serial number and does not allow any other switches other than –n.
–stall is an attempt to emulate the "STALL" utility.

-stearliest
Use -stearliest to find the earliest version of a file type. The –stearliest switch may be combined with -class, -model, -base_version, -filetype or -n (serial number).

-stlatest
Use -stlatest to find the latest version of a file type. The –stlatest switch may be combined with -class, -model, -base_version, -filetype or -n (serial number).

-T "<YYMMDD>"
Use -T to search for files with the specified date in their name. For example, if "-T 200617" is specified on the command line, then any file object that contains "200617" in its name will match, such as:

    3PAR.INSERV/SGH623YH3P/config/config.200617.051351.0001

-text="<test-string>"
Use –text to perform a standard text search of a file object's content. If a match is found, then that record will be displayed.
"-text" and "-regex" are mutually exclusive.

-tsubsearch="<file-pattern-matching-string>"
-tsubsearch is very similar to the Linux tar command's "—wildcards" search. The purpose of –tsubsearch is to provide a means to search files from within a tar ball utilizing –text, -regex, -i, -v, -h. –tsubsearch is the means to limit that search to specific files and not the contents of the entire tar ball. –tsubsearch only works when using the –so and –dx switches. A secondary benefit of –tsubsearch is, that if no pattern search criteria has been specified, the contents of those files matching the –tsubsearch pattern will be displayed to STDOUT.

-v
Use this flag to display the non-matching records based on a search performed with either the "-text" or "-regex" switches.

-vendor="<vendor>"
By default, all searches will be made using the vendor "3PAR".
        Valid vendor names:

        3PAR
        HP
        ST

-version | V
        Use -version to display the current version of S3MFT.

NOTES:

S3MFT requires that one of the following be specified on the command line:

        -base
        -class or -N
        -model
        -n
        -sfdt/-efdt

 And in order to perform a search then one of these search options:

        -m
        -s
        -regex
        -text

DATE-TIME FORMATS:

S3MFT allows for the following specifications to be used with the –sfdt and -efdt switches:

 +|-x[smhd] - Specify a delta of plus(+) or minus(-) X seconds(s) or
   minutes(m) or hours(h) or days(d)

 +|-[dd-]hh:mm[:ss] - Specify a plus(+) or minus(-) delta time comprised
    of days(optional), hours, minutes and/or seconds.

 bigbang - 1-Jan-1970 00:00:00
 daysend - use the current date at 23:59:59
 eosd - use the date from the start date-time specified and use 23:59:59
   instead of the start time provided.
 now - use the current date time
 today - today's date at midnight (00:00:00)
 tomorrow - tomorrow's date at midnight (00:00:00)
 yesterday - yesterday's date at midnight (00:00:00)

 hh:mm:ss - The specified time using the current date.

 dd-mmm[-yy[yy]][-|][hh:mm[:ss]]
 ddMMMyy[yy][-|][hh:mm:ss|hhmm[ss]]
 YYYY-mm-dd [hh:mm:ss]
 YYYYmmdd[-|][hhmmss]

7. Examples

s3mft -n 1642005 -s showpd.-c

```
2020/08/27 08:36:23 Defaulting "-G" to 1


Customer Info for 1642005 (windows)
Customer             : Frigo Glass India Private Limited
Array Name           : IDGUR3PAR
System Model         : HP_3PAR 7200c (2 nodes)
Cage Count           : 2
System Serial Number : 1642005
HPE 10 Digit SN      : 7CE626P214
SysID                : 42005
Build Number         : 3.2.2.709
TPD Kernel Code      : 3.2.2.709 (MU6)
Patches Installed    : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use      :


        System: 1642005 Information as of: 08/26/20 17:52:12
                Source: config.200826.175212.0001


                        ----- showpd -c -----
                        -------- Normal Chunklets -------- ---- Spare Chunklets ----
                        - Used -- -------- Unused -------- - Used - ---- Unused ----
Id CagePos Type State  Total   OK Fail Free Uninit Unavail Fail OK  Fail Free Uninit Fail
 0 0:0:0   FC   normal  546  340    0  115      0       0    0  0     0   91      0    0
 1 0:1:0   FC   normal  546  341    0  114      0       0    0  0     0   91      0    0
 2 0:2:0   FC   normal  546  342    0  113      0       0    0  0     0   91      0    0
 3 0:3:0   FC   normal  546  342    0  113      0       0    0  0     0   91      0    0
 4 0:4:0   FC   normal  546  339    0  116      0       0    0  0     0   91      0    0
 5 0:5:0   FC   normal  546  340    0  115      0       0    0  0     0   91      0    0
 6 1:0:0   FC   normal  546  340    0  115      0       0    0  0     0   91      0    0
 7 1:1:0   FC   normal  546  340    0  115      0       0    0  0     0   91      0    0
 8 1:2:0   FC   normal  546  342    0  113      0       0    0  0     0   91      0    0
 9 1:3:0   FC   normal  546  342    0  113      0       0    0  0     0   91      0    0
10 1:4:0   FC   normal  546  339    0  116      0       0    0  0     0   91      0    0
11 1:5:0   FC   normal  546  340    0  115      0       0    0  0     0   91      0    0
--------------------------------------------------------------------------------
12 total              6552 4087    0 1373      0       0    0  0     0 1092      0    0

        System: 1642005 Information as of: 08/26/20 09:50:42
                Source: environ.200826.095042.0001


        System: 1642005 Information as of: 08/26/20 09:50:48
                Source: hostconf.200826.095048.0001


        System: 1642005 Information as of: 08/26/20 09:50:50
                Source: HWINVENT.200826.095050.0001
```

This example demonstrates a simple "showfield" request to display the output of "showpd –c" that resides in a config telemetry data file for array 1642005. This example also demonstrates show to specify "commands" that utilize switches, use a period (.) to indicate spaces.

s3mft -a -n 1642005 -s statpd.-rw.-d.-iter

```
2020/08/27 08:38:35 Defaulting "-G" to 1


Customer Info for 1642005 (windows)
Customer              : Frigo Glass India Private Limited
Array Name            : IDGUR3PAR
System Model          : HP_3PAR 7200c (2 nodes)
Cage Count            : 2
System Serial Number : 1642005
HPE 10 Digit SN       : 7CE626P214
SysID                 : 42005
Build Number          : 3.2.2.709
TPD Kernel Code       : 3.2.2.709 (MU6)
Patches Installed     : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use       :


        System: 1642005 Information as of: 08/17/20 02:50:39
              Source: alert.200817.025039.0001


        System: 1642005 Information as of: 08/26/20 17:52:12
              Source: config.200826.175212.0001


        System: 1642005 Information as of: 08/26/20 09:50:42
              Source: environ.200826.095042.0001


        System: 1642005 Information as of: 08/26/20 23:54:56
              Source: event.200826.235456.1+405385


        System: 1642005 Information as of: 08/26/20 09:50:48
              Source: hostconf.200826.095048.0001


        System: 1642005 Information as of: 08/26/20 22:24:24
              Source: perform.200826.222424.0001


        System: 1642005 Information as of: 08/26/20 17:51:00
              Source: status.200826.175100.lite
```

This example demonstrates another "showfield" type request where "all" of the standard "showfield" file types are searched per the **–a** switch. In this example there was no output found associated with the command "statpd -rw -d -iter".

s3mft -n 1301946 -m –a

```
2020/08/27 08:50:09 Defaulting "-G" to 1


Customer Info for 1642005 (windows)
Customer             : Frigo Glass India Private Limited
Array Name           : IDGUR3PAR
System Model         : HP_3PAR 7200c (2 nodes)
Cage Count           : 2
System Serial Number : 1642005
HPE 10 Digit SN      : 7CE626P214
SysID                : 42005
Build Number         : 3.2.2.709
TPD Kernel Code      : 3.2.2.709 (MU6)
Patches Installed    : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use      :


        System: 1642005 Information as of: 08/17/20 02:50:39
                Source: alert.200817.025039.0001

Metric collected for: alert.200817.025039.0001
    showdate
    showalert -oneline
    showalert -d new
    showalert -d ack'd
    showalert -d fixed

        System: 1642005 Information as of: 08/26/20 17:52:12
                Source: config.200826.175212.0001

Metric collected for: config.200826.175212.0001
    controlencryption status
    controlrecoveryauth status
    servicenode status
    showauthparam
    showbattery
    showcim
    showdate
    showdomain -d
    showflashcache
    showhost -chap
    showhost -d
    showiscsisession
    showlicense
    shownet
    shownet -d
    shownode -d
    shownode -i
    shownode -verbose
    showpeer
    showport
    showport -c
    showport -i
    showport -iscsi
    showport -iscsiname
    showport -par
    showport -rc
    showport -rcip
    showport -sfp
    showport -sfp -d
    showport -sfp -ddm
    showportarp
    showportisns
    showrcopy -d
    showrcopy -qw targets
    showsched -all
```

```
showsnmpmgr
showsr
showsralertcrit
showsys -d
showsys -param
showsys -space
showsysmgr
showsysmgr -l
showtask -t 4
showtoc
showversion -b -a
showwsapi
showportdev for target ports
showportdev all 0:1:1
showportdev ns 0:1:1
showportdev all 0:1:2
showportdev ns 0:1:2
showportdev all 1:1:1
showportdev ns 1:1:1
showportdev all 1:1:2
showportdev ns 1:1:2
showcage -d
showcage -sfp
showcage -sfp -d
showcage -sfp -ddm
showpd
showpd -c
showpd -i
showpd -s
showcpg
showcpg -r
showcpg -sag
showcpg -sdg
showcpg -space
showdomainset
showfed
showflashcache -vvset *
showhostset
showld
showld -d
showinventory -svc
showqos
showspace
showspace -cpg *
showspace -p -devtype NL
showtemplate
showvasa
showvlun
showvv
showvv -allkeys
showvv -d
showvv -p -prov dds
showvv -pol
showvv -r
showvv -s
showvv -showcols Name,Comment
showvvcpg
showvvolsc
showvvset
```

         System: 1642005 Information as of: 08/26/20 09:50:42
                 Source: environ.200826.095042.0001

Metric collected for: environ.200826.095042.0001
```
    showdate
    showversion
    showbattery
    showbattery -d
```

```
    showbattery -log
    showfirmwaredb
    shownodeenv

        System: 1642005 Information as of: 08/26/20 23:54:56
                Source: event.200826.235456.1+405385

Metric collected for: event.200826.235456.1+405385
    ANALYSIS RESULTS

        System: 1642005 Information as of: 08/26/20 09:50:48
                Source: hostconf.200826.095048.0001

Metric collected for: hostconf.200826.095048.0001
    showdate
    showversion
    showhost -agent
    showhost -agent -d
    showhost -pathsum
    showvlun -pathsum
    showhost -agent
    showhost -agent -d
    showhost -pathsum
    showvlun -pathsum
    Send FTP request

        System: 1642005 Information as of: 08/26/20 22:24:24
                Source: perform.200826.222424.0001

Metric collected for: perform.200826.222424.0001
    showdate
    showversion
    showsys
    statcpu -t -d -iter
    statcmp -d -iter
    statcmp -shared -d -iter
    statcache  -d -iter
    statpd -rw -devinfo -d -iter
    statport -rw -d -iter
    statport -host -rw -d -iter
    statport -disk -rw -d -iter
    statport -rcip -rw -d -iter
    statport -rcfc -rw -d -iter
    statrcopy -d -iter
    statvlun -rw -d -iter -vvsum
    statvlun -ni -hostsum  -iter
    statvv -rw -d -iter
    statrcvv -d -iter -vvsum
    histpd -begin -ni -devinfo -rw -metric size -sizecols 0 15
    histpd -begin -ni -devinfo -rw -metric time -timecols 3 23
    histport -begin -ni -rw -metric size  -sizecols 0 15
    histport -begin -ni -rw -metric time -timecols 3 23
    histport -ctl -metric time -timecols 3 23  -begin -iter 1
    histvlun -begin -ni -rw -metric size -sizecols 0 15 -vvsum
    histvlun -begin -ni -rw -metric time -timecols 3 23 -vvsum
    histld -begin -ni -rw -metric size -sizecols 0 15
    histld -begin -ni -rw -metric time -timecols 3 23
    srrgiodensity -cmult 2 -btsecs -14400 -rw -cpg AOCFG
    srrgiodensity -cmult 2 -btsecs -86400 -rw -cpg AOCFG

        System: 1642005 Information as of: 08/26/20 17:51:00
                Source: status.200826.175100.lite

Metric collected for: status.200826.175100.lite
```

Another "showfield" style example that displays all of the "metric" headings available within each of the "showfield" file types as a result of the **–a** switch.

s3mft -n 1642005 -T 200811 -p config -s showvv

```
2020/08/27 08:55:14 Defaulting "-G" to 1


Customer Info for 1642005 (windows)
Customer            : Frigo Glass India Private Limited
Array Name          : IDGUR3PAR
System Model        : HP_3PAR 7200c (2 nodes)
Cage Count          : 2
System Serial Number : 1642005
HPE 10 Digit SN     : 7CE626P214
SysID               : 42005
Build Number        : 3.2.2.709
TPD Kernel Code     : 3.2.2.709 (MU6)
Patches Installed   : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use     :


        System: 1642005 Information as of: 08/11/20 16:15:29
                Source: config.200811.161529.0001


                    ----- showvv -----

                                                      ----Rsvd(MB)---- -(MB)--
Id Name               Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp    Usr   VSize
 1 .srdata            -      full base ---       1 RW normal            0   0   61440   61440
 0 admin              -      full base ---       0 RW normal            0   0   10240   10240
 3 ERPLN-8G-ORAREDO   -      tpvv base ---       3 RW normal          256   0    1536    8192
 4 ERPLN-8G-ORAREDO1  -      tpvv base ---       4 RW normal          256   0    1536    8192
 5 ERPLN-50G-KIT      -      tpvv base ---       5 RW normal          256   0   36352   51200
 6 ERPLN-50G-ORACLE   -      tpvv base ---       6 RW normal          256   0   15872   51200
 2 ERPLN-100G-ORAARCH -      tpvv base ---       2 RW normal          256   0  102912  102400
 7 ERPLN-140G-ERPLN   -      tpvv base ---       7 RW normal          384   0  143872  143360
 8 ERPLN-1500G-ORADATA -     tpvv base ---       8 RW normal         1152   0 1448448 1536000
 9 ERPLN-1500G-ORAINDEXES -  tpvv base ---       9 RW normal         1152   0 1449344 1536000
------------------------------------------------------------------------------------------
10 total                                                            3968   0 3271552 3508224
```

This "showfield" style example demonstrates the ability to specify a single, particular file type to select and to select that file such that it is from 11-Aug-2020.

s3mft -n 1642005 -sfdt 7-aug -efdt 11-aug -p config -s showvv

```
2020/08/27 09:02:01 Defaulting "-G" to 1
2020/08/27 09:02:01 Start Time: 07-Aug-2020 00:00:00
2020/08/27 09:02:01 End Time:   11-Aug-2020 00:00:00


Customer Info for 1642005 (windows)
Customer              : Frigo Glass India Private Limited
Array Name            : IDGUR3PAR
System Model          : HP_3PAR 7200c (2 nodes)
Cage Count            : 2
System Serial Number  : 1642005
HPE 10 Digit SN       : 7CE626P214
SysID                 : 42005
Build Number          : 3.2.2.709
TPD Kernel Code       : 3.2.2.709 (MU6)
Patches Installed     : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use       :


        System: 1642005 Information as of: 08/10/20 16:15:31
                Source: config.200810.161531.0001


                   ----- showvv -----

                                                          ----Rsvd(MB)---- -(MB)--
Id Name                 Domain Prov Type CopyOf BsId Rd -Detailed_State-  Adm Snp     Usr    VSize
 1 .srdata              -      full base ---       1 RW normal              0   0   61440    61440
 0 admin                -      full base ---       0 RW normal              0   0   10240    10240
 3 ERPLN-8G-ORAREDO     -      tpvv base ---       3 RW normal            256   0    1536     8192
 4 ERPLN-8G-ORAREDO1    -      tpvv base ---       4 RW normal            256   0    1536     8192
 5 ERPLN-50G-KIT        -      tpvv base ---       5 RW normal            256   0   36352    51200
 6 ERPLN-50G-ORACLE     -      tpvv base ---       6 RW normal            256   0   15872    51200
 2 ERPLN-100G-ORAARCH   -      tpvv base ---       2 RW normal            256   0  102912   102400
 7 ERPLN-140G-ERPLN     -      tpvv base ---       7 RW normal            384   0  143872   143360
 8 ERPLN-1500G-ORADATA  -      tpvv base ---       8 RW normal           1152   0 1448448  1536000
 9 ERPLN-1500G-ORAINDEXES -    tpvv base ---       9 RW normal           1152   0 1449344  1536000
--------------------------------------------------------------------------------------------
10 total                                                                 3968   0 3271552  3508224
```

This example demonstrates the use of date selections of a particular file type to display "showvv" data pertaining to a particular time frame.

s3mft -n 1642005 -sfdt 7-aug -efdt 11-aug -p config -s showvv -G 2

```
2020/08/27 09:06:32 Start Time: 07-Aug-2020 00:00:00
2020/08/27 09:06:32 End Time:   11-Aug-2020 00:00:00


Customer Info for 1642005 (windows)
Customer            : Frigo Glass India Private Limited
Array Name          : IDGUR3PAR
System Model        : HP_3PAR 7200c (2 nodes)
Cage Count          : 2
System Serial Number : 1642005
HPE 10 Digit SN     : 7CE626P214
SysID               : 42005
Build Number        : 3.2.2.709
TPD Kernel Code     : 3.2.2.709 (MU6)
Patches Installed   : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use     :


          System: 1642005 Information as of: 08/10/20 08:15:30
                  Source: config.200810.081530.0001


                    ----- showvv -----

                                                        ----Rsvd(MB)---- -(MB)--
Id Name               Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp      Usr    VSize
 1 .srdata            -      full base ---       1 RW normal             0   0    61440    61440
 0 admin              -      full base ---       0 RW normal             0   0    10240    10240
 3 ERPLN-8G-ORAREDO   -      tpvv base ---       3 RW normal           256   0     1536     8192
 4 ERPLN-8G-ORAREDO1  -      tpvv base ---       4 RW normal           256   0     1536     8192
 5 ERPLN-50G-KIT      -      tpvv base ---       5 RW normal           256   0    36352    51200
 6 ERPLN-50G-ORACLE   -      tpvv base ---       6 RW normal           256   0    15872    51200
 2 ERPLN-100G-ORAARCH -      tpvv base ---       2 RW normal           256   0   102912   102400
 7 ERPLN-140G-ERPLN   -      tpvv base ---       7 RW normal           384   0   143872   143360
 8 ERPLN-1500G-ORADATA  -    tpvv base ---       8 RW normal          1152   0  1448448  1536000
 9 ERPLN-1500G-ORAINDEXES - tpvv base ---       9 RW normal          1152   0  1449344  1536000
----------------------------------------------------------------------------------------------
10 total                                                             3968   0  3271552  3508224

          System: 1642005 Information as of: 08/10/20 16:15:31
                  Source: config.200810.161531.0001


                    ----- showvv -----

                                                        ----Rsvd(MB)---- -(MB)--
Id Name               Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp      Usr    VSize
 1 .srdata            -      full base ---       1 RW normal             0   0    61440    61440
 0 admin              -      full base ---       0 RW normal             0   0    10240    10240
 3 ERPLN-8G-ORAREDO   -      tpvv base ---       3 RW normal           256   0     1536     8192
 4 ERPLN-8G-ORAREDO1  -      tpvv base ---       4 RW normal           256   0     1536     8192
 5 ERPLN-50G-KIT      -      tpvv base ---       5 RW normal           256   0    36352    51200
 6 ERPLN-50G-ORACLE   -      tpvv base ---       6 RW normal           256   0    15872    51200
 2 ERPLN-100G-ORAARCH -      tpvv base ---       2 RW normal           256   0   102912   102400
 7 ERPLN-140G-ERPLN   -      tpvv base ---       7 RW normal           384   0   143872   143360
 8 ERPLN-1500G-ORADATA  -    tpvv base ---       8 RW normal          1152   0  1448448  1536000
 9 ERPLN-1500G-ORAINDEXES - tpvv base ---       9 RW normal          1152   0  1449344  1536000
----------------------------------------------------------------------------------------------
10 total                                                             3968   0  3271552  3508224
```

This is a continuation of the previous example to demonstrate the use of the **–G** switch which is used to group files based on file types and provide the latest number of files as dictated by the value of **–G**.

s3mft -n 1642005 -sfdt 7-aug -efdt 11-aug -p config -s showvv -D 2

```
2020/08/27 09:12:40 Start Time: 07-Aug-2020 00:00:00
2020/08/27 09:12:40 End Time:   11-Aug-2020 00:00:00


Customer Info for 1642005 (windows)
Customer             : Frigo Glass India Private Limited
Array Name           : IDGUR3PAR
System Model         : HP_3PAR 7200c (2 nodes)
Cage Count           : 2
System Serial Number : 1642005
HPE 10 Digit SN      : 7CE626P214
SysID                : 42005
Build Number         : 3.2.2.709
TPD Kernel Code      : 3.2.2.709 (MU6)
Patches Installed    : P99,P119,P131,P135,P137,P139,P149,P160,P162
Features In Use      :


        System: 1642005 Information as of: 08/07/20 08:15:31
                Source: config.200807.081531.0001

                      ----- showvv -----

                                                              ----Rsvd(MB)---- -(MB)--
Id Name                  Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp     Usr    VSize
 1 .srdata               -      full base ---       1 RW normal             0   0   61440    61440
 0 admin                 -      full base ---       0 RW normal             0   0   10240    10240
 3 ERPLN-8G-ORAREDO      -      tpvv base ---       3 RW normal           256   0    1536     8192
 4 ERPLN-8G-ORAREDO1     -      tpvv base ---       4 RW normal           256   0    1536     8192
 5 ERPLN-50G-KIT         -      tpvv base ---       5 RW normal           256   0   36352    51200
 6 ERPLN-50G-ORACLE      -      tpvv base ---       6 RW normal           256   0   15872    51200
 2 ERPLN-100G-ORAARCH    -      tpvv base ---       2 RW normal           256   0  102912   102400
 7 ERPLN-140G-ERPLN      -      tpvv base ---       7 RW normal           384   0  143872   143360
 8 ERPLN-1500G-ORADATA   -      tpvv base ---       8 RW normal          1152   0 1448448  1536000
 9 ERPLN-1500G-ORAINDEXES -     tpvv base ---       9 RW normal          1152   0 1449344  1536000
------------------------------------------------------------------------------------------------
10 total                                                                 3968   0 3271552  3508224

        System: 1642005 Information as of: 08/07/20 16:15:27
                Source: config.200807.161527.0001

                      ----- showvv -----

                                                              ----Rsvd(MB)---- -(MB)--
Id Name                  Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp     Usr    VSize
 1 .srdata               -      full base ---       1 RW normal             0   0   61440    61440
 0 admin                 -      full base ---       0 RW normal             0   0   10240    10240
 3 ERPLN-8G-ORAREDO      -      tpvv base ---       3 RW normal           256   0    1536     8192
 4 ERPLN-8G-ORAREDO1     -      tpvv base ---       4 RW normal           256   0    1536     8192
 5 ERPLN-50G-KIT         -      tpvv base ---       5 RW normal           256   0   36352    51200
 6 ERPLN-50G-ORACLE      -      tpvv base ---       6 RW normal           256   0   15872    51200
 2 ERPLN-100G-ORAARCH    -      tpvv base ---       2 RW normal           256   0  102912   102400
 7 ERPLN-140G-ERPLN      -      tpvv base ---       7 RW normal           384   0  143872   143360
 8 ERPLN-1500G-ORADATA   -      tpvv base ---       8 RW normal          1152   0 1448448  1536000
 9 ERPLN-1500G-ORAINDEXES -     tpvv base ---       9 RW normal          1152   0 1449344  1536000
------------------------------------------------------------------------------------------------
10 total                                                                 3968   0 3271552  3508224

        System: 1642005 Information as of: 08/08/20 08:15:29
                Source: config.200808.081529.0001

                      ----- showvv -----

                                                              ----Rsvd(MB)---- -(MB)--
Id Name                  Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp     Usr    VSize
 1 .srdata               -      full base ---       1 RW normal             0   0   61440    61440
 0 admin                 -      full base ---       0 RW normal             0   0   10240    10240
 3 ERPLN-8G-ORAREDO      -      tpvv base ---       3 RW normal           256   0    1536     8192
 4 ERPLN-8G-ORAREDO1     -      tpvv base ---       4 RW normal           256   0    1536     8192
```

```
 5 ERPLN-50G-KIT          -       tpvv base ---      5 RW normal        256   0    36352   51200
 6 ERPLN-50G-ORACLE       -       tpvv base ---      6 RW normal        256   0    15872   51200
 2 ERPLN-100G-ORAARCH     -       tpvv base ---      2 RW normal        256   0   102912  102400
 7 ERPLN-140G-ERPLN       -       tpvv base ---      7 RW normal        384   0   143872  143360
 8 ERPLN-1500G-ORADATA    -       tpvv base ---      8 RW normal       1152   0  1448448 1536000
 9 ERPLN-1500G-ORAINDEXES -       tpvv base ---      9 RW normal       1152   0  1449344 1536000
-----------------------------------------------------------------------------------------------
10 total                                                              3968   0  3271552 3508224
```

          System: 1642005 Information as of: 08/08/20 16:15:30
                  Source: config.200808.161530.0001

                      ----- showvv -----

```
                                                               ----Rsvd(MB)---- -(MB)--
Id Name                   Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp    Usr    VSize
 1 .srdata                -       full base ---      1 RW normal          0   0    61440   61440
 0 admin                  -       full base ---      0 RW normal          0   0    10240   10240
 3 ERPLN-8G-ORAREDO       -       tpvv base ---      3 RW normal        256   0     1536    8192
 4 ERPLN-8G-ORAREDO1      -       tpvv base ---      4 RW normal        256   0     1536    8192
 5 ERPLN-50G-KIT          -       tpvv base ---      5 RW normal        256   0    36352   51200
 6 ERPLN-50G-ORACLE       -       tpvv base ---      6 RW normal        256   0    15872   51200
 2 ERPLN-100G-ORAARCH     -       tpvv base ---      2 RW normal        256   0   102912  102400
 7 ERPLN-140G-ERPLN       -       tpvv base ---      7 RW normal        384   0   143872  143360
 8 ERPLN-1500G-ORADATA    -       tpvv base ---      8 RW normal       1152   0  1448448 1536000
 9 ERPLN-1500G-ORAINDEXES -       tpvv base ---      9 RW normal       1152   0  1449344 1536000
-----------------------------------------------------------------------------------------------
10 total                                                              3968   0  3271552 3508224
```

          System: 1642005 Information as of: 08/09/20 08:15:29
                  Source: config.200809.081529.0001

                      ----- showvv -----

```
                                                               ----Rsvd(MB)---- -(MB)--
Id Name                   Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp    Usr    VSize
 1 .srdata                -       full base ---      1 RW normal          0   0    61440   61440
 0 admin                  -       full base ---      0 RW normal          0   0    10240   10240
 3 ERPLN-8G-ORAREDO       -       tpvv base ---      3 RW normal        256   0     1536    8192
 4 ERPLN-8G-ORAREDO1      -       tpvv base ---      4 RW normal        256   0     1536    8192
 5 ERPLN-50G-KIT          -       tpvv base ---      5 RW normal        256   0    36352   51200
 6 ERPLN-50G-ORACLE       -       tpvv base ---      6 RW normal        256   0    15872   51200
 2 ERPLN-100G-ORAARCH     -       tpvv base ---      2 RW normal        256   0   102912  102400
 7 ERPLN-140G-ERPLN       -       tpvv base ---      7 RW normal        384   0   143872  143360
 8 ERPLN-1500G-ORADATA    -       tpvv base ---      8 RW normal       1152   0  1448448 1536000
 9 ERPLN-1500G-ORAINDEXES -       tpvv base ---      9 RW normal       1152   0  1449344 1536000
-----------------------------------------------------------------------------------------------
10 total                                                              3968   0  3271552 3508224
```

          System: 1642005 Information as of: 08/09/20 16:15:31
                  Source: config.200809.161531.0001

                      ----- showvv -----

```
                                                               ----Rsvd(MB)---- -(MB)--
Id Name                   Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp    Usr    VSize
 1 .srdata                -       full base ---      1 RW normal          0   0    61440   61440
 0 admin                  -       full base ---      0 RW normal          0   0    10240   10240
 3 ERPLN-8G-ORAREDO       -       tpvv base ---      3 RW normal        256   0     1536    8192
 4 ERPLN-8G-ORAREDO1      -       tpvv base ---      4 RW normal        256   0     1536    8192
 5 ERPLN-50G-KIT          -       tpvv base ---      5 RW normal        256   0    36352   51200
 6 ERPLN-50G-ORACLE       -       tpvv base ---      6 RW normal        256   0    15872   51200
 2 ERPLN-100G-ORAARCH     -       tpvv base ---      2 RW normal        256   0   102912  102400
 7 ERPLN-140G-ERPLN       -       tpvv base ---      7 RW normal        384   0   143872  143360
 8 ERPLN-1500G-ORADATA    -       tpvv base ---      8 RW normal       1152   0  1448448 1536000
 9 ERPLN-1500G-ORAINDEXES -       tpvv base ---      9 RW normal       1152   0  1449344 1536000
-----------------------------------------------------------------------------------------------
10 total                                                              3968   0  3271552 3508224
```

          System: 1642005 Information as of: 08/10/20 08:15:30
                  Source: config.200810.081530.0001

```
                    ----- showvv -----

                                                            ----Rsvd(MB)---- -(MB)--
Id Name                     Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp      Usr    VSize
 1 .srdata                  -      full base ---       1 RW normal             0   0    61440    61440
 0 admin                    -      full base ---       0 RW normal             0   0    10240    10240
 3 ERPLN-8G-ORAREDO         -      tpvv base ---       3 RW normal           256   0     1536     8192
 4 ERPLN-8G-ORAREDO1        -      tpvv base ---       4 RW normal           256   0     1536     8192
 5 ERPLN-50G-KIT            -      tpvv base ---       5 RW normal           256   0    36352    51200
 6 ERPLN-50G-ORACLE         -      tpvv base ---       6 RW normal           256   0    15872    51200
 2 ERPLN-100G-ORAARCH       -      tpvv base ---       2 RW normal           256   0   102912   102400
 7 ERPLN-140G-ERPLN         -      tpvv base ---       7 RW normal           384   0   143872   143360
 8 ERPLN-1500G-ORADATA      -      tpvv base ---       8 RW normal          1152   0  1448448  1536000
 9 ERPLN-1500G-ORAINDEXES - tpvv base ---       9 RW normal          1152   0  1449344  1536000
----------------------------------------------------------------------------------------------------
10 total                                                                    3968   0  3271552  3508224


        System: 1642005 Information as of: 08/10/20 16:15:31
                Source: config.200810.161531.0001

                    ----- showvv -----

                                                            ----Rsvd(MB)---- -(MB)--
Id Name                     Domain Prov Type CopyOf BsId Rd -Detailed_State- Adm Snp      Usr    VSize
 1 .srdata                  -      full base ---       1 RW normal             0   0    61440    61440
 0 admin                    -      full base ---       0 RW normal             0   0    10240    10240
 3 ERPLN-8G-ORAREDO         -      tpvv base ---       3 RW normal           256   0     1536     8192
 4 ERPLN-8G-ORAREDO1        -      tpvv base ---       4 RW normal           256   0     1536     8192
 5 ERPLN-50G-KIT            -      tpvv base ---       5 RW normal           256   0    36352    51200
 6 ERPLN-50G-ORACLE         -      tpvv base ---       6 RW normal           256   0    15872    51200
 2 ERPLN-100G-ORAARCH       -      tpvv base ---       2 RW normal           256   0   102912   102400
 7 ERPLN-140G-ERPLN         -      tpvv base ---       7 RW normal           384   0   143872   143360
 8 ERPLN-1500G-ORADATA      -      tpvv base ---       8 RW normal          1152   0  1448448  1536000
 9 ERPLN-1500G-ORAINDEXES - tpvv base ---       9 RW normal          1152   0  1449344  1536000
----------------------------------------------------------------------------------------------------
10 total                                                                    3968   0  3271552  3508224
```

The **–D** switch groups the files based on date, not date-time just date, compared to the **–G** switch which groups of file types.

s3mft -n 1642005 -stlatest

```
stats-2020-08|3PAR.INSERV/1642005/alert/alert.200817.025039.0001
stats-2020-08|3PAR.INSERV/1642005/biosmsg/biosmsg.200823.095046.0001
stats-2020-08|3PAR.INSERV/1642005/chkupg/CHKUPG.200826.095037.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200826.175212.0001
stats-2020-05|3PAR.INSERV/1642005/crashdmp/crashdmp.200517.190944.80057547
stats-2020-05|3PAR.INSERV/1642005/crashtxt/crashtxt.200517.190250.96979063
stats-2020-08|3PAR.INSERV/1642005/eeprom/eeprom.200823.095044.0001
stats-2020-08|3PAR.INSERV/1642005/environ/environ.200826.095042.0001
stats-2020-08|3PAR.INSERV/1642005/event/event.200827.075406.1+418222
stats-2020-08|3PAR.INSERV/1642005/evtlog/evtlog.200827.075040.debug
stats-2020-08|3PAR.INSERV/1642005/hostconf/hostconf.200826.095048.0001
stats-2020-08|3PAR.INSERV/1642005/hwinvent/HWINVENT.200826.095050.0001
stats-2020-08|3PAR.INSERV/1642005/memdata/memdata.200826.095040.0001
stats-2020-08|3PAR.INSERV/1642005/perform/perform.200827.022423.0001
stats-2020-08|3PAR.INSERV/1642005/srhires/srhires.200827.075406.1-000258
stats-2020-08|3PAR.INSERV/1642005/status/status.200827.075055.lite
stats-2020-08|3PAR.INSERV/1642005/vmcollec/vmcollec.200826.095039.74284850
```

This example diplays the latest available version of each file type.

s3mft -n 1642005 -stlatest -filetype alert,config

```
stats-2020-08|3PAR.INSERV/1642005/alert/alert.200817.025039.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200826.175212.0001
```

This example is very similar to the previous example except it demonstrates using **–filetype** to limit the search to the listed specific file types.

s3mft -n 1642005 -filetype staus,config -sfdt="-7d"

```
2020/08/27 09:31:48 Start Time: 20-Aug-2020 09:31:48
2020/08/27 09:31:48 End Time:   27-Aug-2020 09:31:48

stats-2020-08|3PAR.INSERV/1642005/config/config.200820.095223.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200820.175217.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200821.015212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200821.095217.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200821.175212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200822.015211.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200822.095217.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200822.175213.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200823.015212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200823.095227.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200823.175213.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200824.015212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200824.095218.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200824.175212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200825.015217.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200825.095217.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200825.175212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200826.015212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200826.095216.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200826.175212.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200827.015214.0001
stats-2020-08|3PAR.INSERV/1642005/status/status.200820.155055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.065056.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.075056.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.085055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.095106.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.105056.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.115055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200821.155055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200823.225055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200823.235055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200824.065056.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200824.075055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200824.085055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200824.215055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200825.155055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200826.155055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200826.175100.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200826.185055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200826.195055.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200827.065056.lite
stats-2020-08|3PAR.INSERV/1642005/status/status.200827.075055.lite
```

Displays the status and config files for the array 1642005 that cover the last seven (7) days.

s3mft -product SP -sfdt="-7d"

This example will produce a very large amount of data!
S3MFT will produce a list of files that represent every SP that is sending back telemetry data. Furthermore, this list will contain every file type from that SP that has been created in the last seven (7) days.

This is the beginning snippet of that data:

```
2020/08/27 09:39:56 Start Time: 20-Aug-2020 09:39:56
2020/08/27 09:39:56 End Time:   27-Aug-2020 09:39:56

stats-2020-08|3PAR.SP/SP0001685438/spwdlog/SPWDLOG.200820.093957.10020999
stats-2020-08|3PAR.SP/SP0001649784/splog/SPLOG.200820.093958.2363
stats-2020-08|3PAR.SP/SP2MK8330038/notify/notify.200820.093959.s-000012
stats-2020-08|3PAR.SP/SP2MK8330038/notify/notify.200820.093959.s-000011
stats-2020-08|3PAR.SP/SPSGH615W9V0/spwdlog/SPWDLOG.200820.093959.19936286
stats-2020-08|3PAR.SP/SP0001637321/props/PROPS.200820.094001.20206886
stats-2020-08|3PAR.SP/SP5PUM0-5MUSH-330JG-3BB0J-THD7K/notify/notify.200820.094001.s-000015
stats-2020-08|3PAR.SP/SP0001611631/props/PROPS.200820.094001.20715860
stats-2020-08|3PAR.SP/SP0001639589/notify/NOTIFY.200820.094001.10296519
stats-2020-08|3PAR.SP/SPMXN71539MV/props/PROPS.200820.094002.14391285
stats-2020-08|3PAR.SP/SP6QJUF-8GEKM-B8LES-JSKJB-PD4FX/splor/splor.200820.094003.73153132
stats-2020-08|3PAR.SP/SP5PUM0-5MUSH-330JG-3BB0J-THD7K/spconfig/spconfig.200820.094003.0001
stats-2020-08|3PAR.SP/SP5EVHU-AMWFQ-V9WU5-7DK4R-EL2S2/splor/splor.200820.094003.11326182
stats-2020-08|3PAR.SP/SPMXN7173AL0/spconfig/spconfig.200820.094004.0001
stats-2020-08|3PAR.SP/SPCZ37202NAW/spconfig/spconfig.200820.094004.0001
stats-2020-08|3PAR.SP/SP0001635690/spconfig/spconfig.200820.094005.0001
stats-2020-08|3PAR.SP/SP2M264500KW/spconfig/spconfig.200820.094005.0001
stats-2020-08|3PAR.SP/SP0SV4O-CXS2O-TYE9J-90TGB-CRAUD/notify/notify.200820.094006.s-002650
stats-2020-08|3PAR.SP/SP40PG0-T8VGM-S01HA-Q4OPW-Q60L7/splor/splor.200820.094009.59775650
stats-2020-08|3PAR.SP/SP2MS919A0HT/spconfig/spconfig.200820.094010.0001
stats-2020-08|3PAR.SP/SP0001610929/spconfig/spconfig.200820.094010.0001
stats-2020-08|3PAR.SP/SP0001645729/splor/splor.200820.094010.43112293
stats-2020-08|3PAR.SP/SP0001629846/spconfig/spconfig.200820.094015.0001
stats-2020-08|3PAR.SP/SP0001638664/splog/SPLOG.200820.094017.4938
stats-2020-08|3PAR.SP/SPSGH636WX02/splor/splor.200820.094017.2766986
stats-2020-08|3PAR.SP/SP01853/splog/SPLOG.200820.094020.31486
stats-2020-08|3PAR.SP/SP0001639589/spchkhlth/SPCHKHLTH.200820.094021.19413904
stats-2020-08|3PAR.SP/SPCZ38298N0B/spconfig/spconfig.200820.094022.0001
stats-2020-08|3PAR.SP/SPMXN60529LX/splor/splor.200820.094023.34273146
stats-2020-08|3PAR.SP/SP0001639589/splor/splor.200820.094025.20944997
stats-2020-08|3PAR.SP/SP8SDDS-6N99L-0I9V8-VSERI-IX4RG/spconfig/spconfig.200820.094027.0001
stats-2020-08|3PAR.SP/SP9ZVOB-3SJ4V-E11MO-X042R-8GFRP/spconfig/spconfig.200820.094030.0001
stats-2020-08|3PAR.SP/SP0001667332/spwdlog/SPWDLOG.200820.094031.10999929
stats-2020-08|3PAR.SP/SPBQ22I-01ZRB-09SJW-KKQRG-PZ96J/spconfig/spconfig.200820.094032.0001
stats-2020-08|3PAR.SP/SPCZ36177PTJ/spconfig/spconfig.200820.094033.0001
stats-2020-08|3PAR.SP/SP0001644210/splog/SPLOG.200820.094033.3596
stats-2020-08|3PAR.SP/SP0001648779/spconfig/spconfig.200820.094033.0001
stats-2020-08|3PAR.SP/SPMXN6112CCR/notify/NOTIFY.200820.094034.20396639
stats-2020-08|3PAR.SP/SP0001667416/spwdlog/SPWDLOG.200820.094037.35388463
stats-2020-08|3PAR.SP/SPSGH613XSKE/splog/SPLOG.200820.094037.24105
stats-2020-08|3PAR.SP/SP0001677781/splog/SPLOG.200820.094038.23015
stats-2020-08|3PAR.SP/SP1X0QV-BV8HO-4MUNK-IQY5T-UPSR1/spconfig/spconfig.200820.094038.0001
stats-2020-08|3PAR.SP/SP0001684523/splor/splor.200820.094040.37781148
stats-2020-08|3PAR.SP/SP0001625234/notify/notify.200820.094040.s-000530
stats-2020-08|3PAR.SP/SPSGH708YBY6/notify/notify.200820.094042.s-000766
stats-2020-08|3PAR.SP/SP0001675704/splog/SPLOG.200820.094044.337
stats-2020-08|3PAR.SP/SP0001611734/notify/NOTIFY.200820.094047.25325804
stats-2020-08|3PAR.SP/SP0001685437/splor/splor.200820.094047.62694629
.
.
.
```

s3mft -class 9000 -stlatest -filetype config

```
stats-2020-08|3PAR.INSERV/2M20010LNW/config/config.200827.084350.0001
stats-2020-08|3PAR.INSERV/2M2002032L/config/config.200827.083310.0001
stats-2020-08|3PAR.INSERV/2M2002032P/config/config.200827.070846.0001
stats-2020-08|3PAR.INSERV/2M200609GM/config/config.200827.093624.0001
stats-2020-08|3PAR.INSERV/2M2007035K/config/config.200827.110548.0001
stats-2020-08|3PAR.INSERV/2M200709BG/config/config.200827.080541.0001
stats-2020-08|3PAR.INSERV/2M200709BX/config/config.200827.082733.0001
stats-2020-08|3PAR.INSERV/2M200709VJ/config/config.200827.005737.0001
stats-2020-08|3PAR.INSERV/2M200801NH/config/config.200827.102023.0001
stats-2020-08|3PAR.INSERV/2M201003ST/config/config.200827.074823.0001
stats-2020-08|3PAR.INSERV/2M2010054Z/config/config.200826.091326.0001
stats-2020-08|3PAR.INSERV/2M20120CH1/config/config.200827.053234.0001
stats-2020-08|3PAR.INSERV/2M20120CH2/config/config.200827.062051.0001
stats-2020-08|3PAR.INSERV/2M201405PD/config/config.200827.011103.0001
stats-2020-08|3PAR.INSERV/2M20180D3T/config/config.200826.200132.0001
stats-2020-08|3PAR.INSERV/2M20200BNT/config/config.200827.113834.0001
stats-2020-08|3PAR.INSERV/2M20200BY2/config/config.200827.040755.0001
stats-2020-08|3PAR.INSERV/2M20210CTR/config/config.200827.083402.0001
stats-2020-08|3PAR.INSERV/2M202205B0/config/config.200826.142939.0001
stats-2020-08|3PAR.INSERV/2M20280M5B/config/config.200827.091514.0001
stats-2020-08|3PAR.INSERV/2M293600P4/config/config.200827.072023.0001
stats-2020-08|3PAR.INSERV/2M29460LF4/config/config.200827.111617.0001
stats-2020-08|3PAR.INSERV/2M2947021B/config/config.200810.122913.0001
stats-2020-08|3PAR.INSERV/2M29470FF8/config/config.200827.091940.0001
stats-2020-08|3PAR.INSERV/2M29470FFC/config/config.200827.041736.0001
stats-2020-08|3PAR.INSERV/2M294802DC/config/config.200827.034353.0001
stats-2020-08|3PAR.INSERV/2M294807HC/config/config.200827.112321.0001
stats-2020-08|3PAR.INSERV/2M294807HH/config/config.200827.112208.0001
stats-2020-08|3PAR.INSERV/2M29480809/config/config.200827.081928.0001
stats-2020-08|3PAR.INSERV/2M29490QQ5/config/config.200827.073728.0001
stats-2020-08|3PAR.INSERV/2M295201GX/config/config.200827.015233.0001
stats-2020-08|3PAR.INSERV/2M295201GY/config/config.200827.025030.0001
stats-2020-07|3PAR.INSERV/4UW0001008/config/config.200729.215528.0001
stats-2020-07|3PAR.INSERV/4UW0001498/config/config.200731.153859.0001
stats-2020-07|3PAR.INSERV/4UW0002147/config/config.200704.043830.0001
stats-2020-08|3PAR.INSERV/4UW0002150/config/config.200827.135646.0001
stats-2020-05|3PAR.INSERV/4UW0002246/config/config.200519.032929.0001
stats-2020-05|3PAR.INSERV/4UW0002247/config/config.200505.113830.0001
stats-2020-07|3PAR.INSERV/4UW0002266/config/config.200730.081403.0002
stats-2020-07|3PAR.INSERV/4UW0002296/config/config.200729.171336.0036
stats-2020-07|3PAR.INSERV/4UW0002298/config/config.200729.084422.0002
stats-2020-06|3PAR.INSERV/4UW0002327/config/config.200619.045352.0125
stats-2020-07|3PAR.INSERV/4UW0002332/config/config.200706.185854.0021
stats-2020-08|3PAR.INSERV/5UN80560E0/config/config.200827.072601.0001
stats-2020-08|3PAR.INSERV/5UN80660J0/config/config.200827.103557.0001
stats-2020-08|3PAR.INSERV/5UN81362PX/config/config.200827.103026.0001
stats-2020-08|3PAR.INSERV/5UN81362RA/config/config.200827.030801.0001
stats-2020-08|3PAR.INSERV/5UN814633X/config/config.200827.101711.0001
stats-2020-08|3PAR.INSERV/5UN814634D/config/config.200827.033004.0001
stats-2020-08|3PAR.INSERV/5UN815640E/config/config.200826.144814.0001
stats-2020-08|3PAR.INSERV/5UN815640W/config/config.200827.082921.0001
stats-2020-08|3PAR.INSERV/5UN8156416/config/config.200827.005557.0001
stats-2020-08|3PAR.INSERV/5UN8156417/config/config.200827.071606.0001
stats-2020-08|3PAR.INSERV/5UN815642E/config/config.200827.022539.0001
stats-2020-07|3PAR.INSERV/5UN8156442/config/config.200727.040126.0001
stats-2020-08|3PAR.INSERV/5UN816647T/config/config.200827.035213.0001
stats-2020-08|3PAR.INSERV/5UN816647V/config/config.200827.065450.0001
stats-2020-08|3PAR.INSERV/5UN816648R/config/config.200827.101436.0001
stats-2020-08|3PAR.INSERV/5UN81664B4/config/config.200827.095853.0001
stats-2020-08|3PAR.INSERV/5UN81664BE/config/config.200827.102832.0001
stats-2020-08|3PAR.INSERV/5UN81664LT/config/config.200827.101844.0001
stats-2020-08|3PAR.INSERV/5UN81664LV/config/config.200827.092522.0001
stats-2020-08|3PAR.INSERV/5UN81664MJ/config/config.200827.030042.0001
stats-2020-08|3PAR.INSERV/5UN81664MP/config/config.200827.112626.0001
stats-2020-08|3PAR.INSERV/5UN81664MW/config/config.200827.102103.0001
```

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```
stats-2020-08|3PAR.INSERV/5UN81865FB/config/config.200827.053939.0001
stats-2020-08|3PAR.INSERV/5UN81865FH/config/config.200827.113825.0001
stats-2020-08|3PAR.INSERV/5UN81865JA/config/config.200827.104451.0001
stats-2020-08|3PAR.INSERV/5UN81865JB/config/config.200827.085753.0001
stats-2020-08|3PAR.INSERV/5UN81865LH/config/config.200827.104313.0001
stats-2020-08|3PAR.INSERV/5UN81865TE/config/config.200827.042334.0001
stats-2020-08|3PAR.INSERV/5UN81865TR/config/config.200827.062024.0001
stats-2020-05|3PAR.INSERV/5UN82066C8/config/config.200519.031032.0001
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stats-2020-08|3PAR.INSERV/CZ3842FZXC/config/config.200827.153749.0001
stats-2020-08|3PAR.INSERV/CZ3842GHSX/config/config.200827.165252.0001
stats-2020-08|3PAR.INSERV/CZ3844HMY1/config/config.200827.050532.0001
stats-2020-08|3PAR.INSERV/CZ3844HMY4/config/config.200827.154815.0001
stats-2020-08|3PAR.INSERV/CZ3844HN13/config/config.200827.155732.0001
stats-2020-08|3PAR.INSERV/CZ3844HN14/config/config.200827.135742.0001
stats-2020-08|3PAR.INSERV/CZ3846JP98/config/config.200827.132153.0001
stats-2020-08|3PAR.INSERV/CZ3847JZXJ/config/config.200827.034250.0001
stats-2020-08|3PAR.INSERV/CZ3847K9SX/config/config.200827.045202.0001
stats-2020-08|3PAR.INSERV/CZ3848KBNL/config/config.200826.123043.0001
stats-2020-08|3PAR.INSERV/CZ3848KGBJ/config/config.200827.155820.0001
stats-2020-08|3PAR.INSERV/CZ3848KKB2/config/config.200827.134436.0001
stats-2020-08|3PAR.INSERV/CZ3849KMJ5/config/config.200827.152130.0001
stats-2020-08|3PAR.INSERV/CZ3849KTZJ/config/config.200827.122353.0001
stats-2020-08|3PAR.INSERV/CZ3849KTZP/config/config.200827.132235.0001
stats-2020-08|3PAR.INSERV/CZ3850L0RD/config/config.200827.053354.0001
stats-2020-08|3PAR.INSERV/CZ3850L238/config/config.200827.024203.0001
stats-2020-08|3PAR.INSERV/CZ3850L23K/config/config.200827.110034.0001
stats-2020-08|3PAR.INSERV/CZ3850L2F3/config/config.200827.123126.0001
stats-2020-08|3PAR.INSERV/CZ3851LF3D/config/config.200827.102726.0001
stats-2020-08|3PAR.INSERV/CZ3851LF7Q/config/config.200827.092509.0001
stats-2020-08|3PAR.INSERV/CZ3851LHZ7/config/config.200827.165442.0001
stats-2020-08|3PAR.INSERV/CZ3851LHZD/config/config.200827.173827.0001
stats-2020-08|3PAR.INSERV/CZ3851LJS0/config/config.200827.150228.0001
stats-2020-08|3PAR.INSERV/CZ3851LJSW/config/config.200827.133417.0001
stats-2020-08|3PAR.INSERV/CZ3851LQ4K/config/config.200827.145557.0001
stats-2020-08|3PAR.INSERV/CZ3852LT4V/config/config.200827.100953.0001
stats-2020-08|3PAR.INSERV/CZ3852LT50/config/config.200827.123544.0001
stats-2020-08|3PAR.INSERV/CZ3852LTNB/config/config.200827.152326.0001
stats-2020-08|3PAR.INSERV/CZ3852LTNC/config/config.200827.060642.0001
stats-2020-08|3PAR.INSERV/CZ3852LTNN/config/config.200826.231134.0001
stats-2020-08|3PAR.INSERV/CZ3852LTNP/config/config.200827.155256.0001
stats-2020-08|3PAR.INSERV/CZ3852LV0Z/config/config.200827.082557.0001
stats-2020-08|3PAR.INSERV/CZ3852LVDB/config/config.200827.150907.0001
stats-2020-08|3PAR.INSERV/CZ3852LVF9/config/config.200827.131826.0001
stats-2020-08|3PAR.INSERV/CZ3852LVFD/config/config.200827.132836.0001
stats-2020-08|3PAR.INSERV/CZ3852LWR6/config/config.200827.151701.0001
stats-2020-08|3PAR.INSERV/CZ3852LWS2/config/config.200827.150608.0001
stats-2020-08|3PAR.INSERV/CZ3852LX3H/config/config.200827.090841.0001
stats-2020-08|3PAR.INSERV/CZ3852LX7W/config/config.200827.133941.0001
stats-2020-08|3PAR.INSERV/CZ3901LYXQ/config/config.200827.014806.0001
stats-2020-08|3PAR.INSERV/CZ3901LZ6K/config/config.200827.100414.0001
stats-2020-08|3PAR.INSERV/CZ3901M099/config/config.200827.220020.0001
stats-2020-08|3PAR.INSERV/CZ3901M09D/config/config.200827.114106.0001
stats-2020-08|3PAR.INSERV/CZ3901M09K/config/config.200827.144529.0001
```

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stats-2020-08|3PAR.INSERV/CZ3902M6NL/config/config.200827.135823.0001
stats-2020-08|3PAR.INSERV/CZ3903MZ5K/config/config.200827.104614.0001
stats-2020-08|3PAR.INSERV/CZ3903MZCD/config/config.200827.015403.0001
stats-2020-08|3PAR.INSERV/CZ3904N7KB/config/config.200827.130428.0001
stats-2020-08|3PAR.INSERV/CZ3904N7KH/config/config.200827.111304.0001
stats-2020-08|3PAR.INSERV/CZ3907NVLN/config/config.200827.135155.0001
stats-2020-08|3PAR.INSERV/CZ3907NWVK/config/config.200827.152203.0001
stats-2020-08|3PAR.INSERV/CZ3907NWVL/config/config.200827.144742.0001
stats-2020-08|3PAR.INSERV/CZ3908P1BF/config/config.200827.113318.0001
stats-2020-08|3PAR.INSERV/CZ3909PCF6/config/config.200827.150920.0001
stats-2020-08|3PAR.INSERV/CZ3909PHRT/config/config.200827.155020.0001
stats-2020-08|3PAR.INSERV/CZ3910PRFL/config/config.200827.133136.0001
stats-2020-08|3PAR.INSERV/CZ3910PRFM/config/config.200827.092107.0001
stats-2020-08|3PAR.INSERV/CZ3910PWGZ/config/config.200827.134016.0001
stats-2020-08|3PAR.INSERV/CZ3910PYJ8/config/config.200827.133632.0001
stats-2020-08|3PAR.INSERV/CZ3911QFXX/config/config.200827.132917.0001
stats-2020-08|3PAR.INSERV/CZ3912QMPH/config/config.200827.150351.0001
stats-2020-08|3PAR.INSERV/CZ3912QMPQ/config/config.200827.071447.0001
stats-2020-08|3PAR.INSERV/CZ3912QMPY/config/config.200827.072952.0001
stats-2020-08|3PAR.INSERV/CZ3912QMQ5/config/config.200827.153130.0001
stats-2020-08|3PAR.INSERV/CZ3912QQ24/config/config.200827.160329.0001
stats-2020-08|3PAR.INSERV/CZ3912QVMF/config/config.200827.022300.0001
stats-2020-08|3PAR.INSERV/CZ3913QY9N/config/config.200827.152635.0001
stats-2020-08|3PAR.INSERV/CZ3913QYT9/config/config.200827.143358.0001
stats-2020-08|3PAR.INSERV/CZ3913QYTB/config/config.200827.154851.0001
stats-2020-08|3PAR.INSERV/CZ3914RLNH/config/config.200826.215956.0001
stats-2020-08|3PAR.INSERV/CZ3914RM2J/config/config.200827.135558.0001
stats-2020-08|3PAR.INSERV/CZ3914RM9H/config/config.200827.140533.0001
stats-2020-08|3PAR.INSERV/CZ3914RM9N/config/config.200827.095119.0001
stats-2020-08|3PAR.INSERV/CZ3915RWSL/config/config.200827.165643.0001
stats-2020-08|3PAR.INSERV/CZ3915S2LD/config/config.200827.112227.0001
stats-2020-08|3PAR.INSERV/CZ3915S2LP/config/config.200827.094033.0001
stats-2020-08|3PAR.INSERV/CZ3915S2M7/config/config.200827.102853.0001
stats-2020-08|3PAR.INSERV/CZ3915S2MD/config/config.200827.141726.0001
stats-2020-08|3PAR.INSERV/CZ3915S2MK/config/config.200827.113956.0001
stats-2020-08|3PAR.INSERV/CZ3915S57L/config/config.200827.141434.0001
stats-2020-08|3PAR.INSERV/CZ3915S57W/config/config.200827.143202.0001
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stats-2020-08|3PAR.INSERV/CZ3915S5W8/config/config.200827.100359.0001
stats-2020-08|3PAR.INSERV/CZ3916S87W/config/config.200827.115746.0001
stats-2020-08|3PAR.INSERV/CZ3916S87X/config/config.200827.122744.0001
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stats-2020-08|3PAR.INSERV/CZ3916S8CW/config/config.200825.081426.0001
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stats-2020-08|3PAR.INSERV/CZ3922TSX2/config/config.200827.133449.0001
stats-2020-08|3PAR.INSERV/CZ3922TT5C/config/config.200827.101313.0001
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stats-2020-08|3PAR.INSERV/CZ3924TY6Q/config/config.200827.043947.0001
stats-2020-08|3PAR.INSERV/CZ3924TY85/config/config.200827.141425.0001
stats-2020-08|3PAR.INSERV/CZ3924TYCZ/config/config.200827.131926.0001
stats-2020-08|3PAR.INSERV/CZ3930VZS6/config/config.200827.140631.0001
stats-2020-08|3PAR.INSERV/CZ3934WKKW/config/config.200827.140101.0001
stats-2020-08|3PAR.INSERV/CZ3934WL7W/config/config.200827.154346.0001
stats-2020-08|3PAR.INSERV/CZ3941XGBP/config/config.200827.103431.0001
stats-2020-08|3PAR.INSERV/CZ3941XJM5/config/config.200827.155035.0001
stats-2020-08|3PAR.INSERV/CZ3941XJM8/config/config.200827.153946.0001
stats-2020-08|3PAR.INSERV/CZ3942XMDT/config/config.200827.105543.0001
stats-2020-08|3PAR.INSERV/CZ3943XN22/config/config.200827.162342.0001
stats-2020-08|3PAR.INSERV/CZ3949XZM8/config/config.200827.104104.0001
stats-2020-08|3PAR.INSERV/CZ3949XZMC/config/config.200827.141312.0001
stats-2020-08|3PAR.INSERV/MXN7263E1D/config/config.200826.171633.0001
stats-2020-08|3PAR.INSERV/MXN7283E95/config/config.200827.065627.0001
stats-2020-05|3PAR.INSERV/MXN7283EJY/config/config.200504.082034.0001
stats-2020-07|3PAR.INSERV/MXN7293ETK/config/config.200731.000228.0001
stats-2020-08|3PAR.INSERV/MXN7303F8V/config/config.200827.011417.0001
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stats-2020-08|3PAR.INSERV/MXN7313F9J/config/config.200827.100945.0001
stats-2020-08|3PAR.INSERV/MXN7313FA9/config/config.200826.231328.0001
stats-2020-08|3PAR.INSERV/MXN7313FF5/config/config.200827.043311.0001
stats-2020-08|3PAR.INSERV/MXN7313FFE/config/config.200827.114003.0001
stats-2020-08|3PAR.INSERV/MXN7313FFT/config/config.200827.101653.0001
stats-2020-08|3PAR.INSERV/SGH011VKS1/config/config.200828.001352.0001
stats-2020-08|3PAR.INSERV/SGH733V48P/config/config.200827.195118.0001
stats-2020-08|3PAR.INSERV/SGH737XKST/config/config.200827.152516.0001
stats-2020-08|3PAR.INSERV/SGH737XKSV/config/config.200827.180317.0001
stats-2020-08|3PAR.INSERV/SGH741VRNS/config/config.200827.214020.0001
stats-2020-08|3PAR.INSERV/SGH741WHHS/config/config.200827.140350.0001
stats-2020-08|3PAR.INSERV/SGH741WHHT/config/config.200827.130623.0001
stats-2020-08|3PAR.INSERV/SGH741WL11/config/config.200827.183210.0001
stats-2020-08|3PAR.INSERV/SGH742XLJ4/config/config.200827.221936.0001
stats-2020-08|3PAR.INSERV/SGH742XLJW/config/config.200827.221643.0001
stats-2020-08|3PAR.INSERV/SGH744YPFC/config/config.200827.203631.0001
stats-2020-08|3PAR.INSERV/SGH745SKV2/config/config.200827.185639.0001
stats-2020-08|3PAR.INSERV/SGH745YSM1/config/config.200827.042659.0001
stats-2020-08|3PAR.INSERV/SGH748X4DH/config/config.200827.164139.0001
stats-2020-08|3PAR.INSERV/SGH748X4DJ/config/config.200827.223529.0001
stats-2020-08|3PAR.INSERV/SGH749XMV1/config/config.200827.222526.0001
stats-2020-08|3PAR.INSERV/SGH802WK5T/config/config.200827.071933.0001
stats-2020-08|3PAR.INSERV/SGH802X410/config/config.200827.095252.0001
stats-2020-08|3PAR.INSERV/SGH803XYDY/config/config.200828.030354.0001
stats-2020-08|3PAR.INSERV/SGH803Y405/config/config.200827.201423.0001
stats-2020-08|3PAR.INSERV/SGH803Y407/config/config.200827.201913.0001
stats-2020-08|3PAR.INSERV/SGH807TPYM/config/config.200827.223320.0001
stats-2020-08|3PAR.INSERV/SGH807TPYN/config/config.200827.225751.0001
stats-2020-08|3PAR.INSERV/SGH814VR78/config/config.200827.220033.0001
stats-2020-08|3PAR.INSERV/SGH816YA8R/config/config.200827.105200.0001
stats-2020-08|3PAR.INSERV/SGH818S4TP/config/config.200827.200322.0001
stats-2020-07|3PAR.INSERV/SGH820TTRR/config/config.200721.072457.0001
stats-2020-08|3PAR.INSERV/SGH826T277/config/config.200827.190447.0001
stats-2020-08|3PAR.INSERV/SGH826T27A/config/config.200827.131457.0001
stats-2020-08|3PAR.INSERV/SGH827V1YY/config/config.200827.073433.0001
stats-2020-08|3PAR.INSERV/SGH828VQT6/config/config.200827.184657.0001
stats-2020-08|3PAR.INSERV/SGH828W4TG/config/config.200827.181044.0001
stats-2020-08|3PAR.INSERV/SGH828W4TS/config/config.200827.053854.0001
stats-2020-08|3PAR.INSERV/SGH829WQJY/config/config.200827.110040.0001
stats-2020-08|3PAR.INSERV/SGH835TSXC/config/config.200827.211935.0001
stats-2020-08|3PAR.INSERV/SGH835TZZZ/config/config.200827.215647.0001
stats-2020-08|3PAR.INSERV/SGH836VGKJ/config/config.200827.151756.0001
stats-2020-08|3PAR.INSERV/SGH836VGN5/config/config.200827.232813.0001
stats-2020-08|3PAR.INSERV/SGH836VGN7/config/config.200827.191242.0001
stats-2020-08|3PAR.INSERV/SGH836VHC5/config/config.200827.183844.0001
stats-2020-08|3PAR.INSERV/SGH837WTLJ/config/config.200827.200305.0001
stats-2020-08|3PAR.INSERV/SGH837WTLK/config/config.200827.181457.0001
stats-2020-05|3PAR.INSERV/SGH839Y6FH/config/config.200519.172439.0001
stats-2020-08|3PAR.INSERV/SGH841SC18/config/config.200827.222910.0001
stats-2020-08|3PAR.INSERV/SGH841SD6T/config/config.200827.212357.0001
stats-2020-08|3PAR.INSERV/SGH842SWRW/config/config.200827.193943.0001
stats-2020-08|3PAR.INSERV/SGH845VYK3/config/config.200827.120701.0001
stats-2020-08|3PAR.INSERV/SGH845VYKC/config/config.200827.193845.0001
stats-2020-08|3PAR.INSERV/SGH850SVYB/config/config.200827.171606.0001
stats-2020-08|3PAR.INSERV/SGH850T0CX/config/config.200827.210756.0001
stats-2020-08|3PAR.INSERV/SGH851V2C0/config/config.200827.181000.0001
stats-2020-08|3PAR.INSERV/SGH851V2CW/config/config.200827.195343.0001
stats-2020-08|3PAR.INSERV/SGH851VB25/config/config.200827.150610.0001
stats-2020-08|3PAR.INSERV/SGH901W8V5/config/config.200827.191326.0001
stats-2020-08|3PAR.INSERV/SGH901W8V7/config/config.200827.203847.0001
stats-2020-08|3PAR.INSERV/SGH902WTSQ/config/config.200828.004248.0001
stats-2020-08|3PAR.INSERV/SGH902WTSW/config/config.200827.234501.0001
stats-2020-08|3PAR.INSERV/SGH906SFNR/config/config.200827.150044.0001
stats-2020-08|3PAR.INSERV/SGH911WRHF/config/config.200828.002648.0001
stats-2020-08|3PAR.INSERV/SGH911WRHG/config/config.200827.184449.0001
stats-2020-08|3PAR.INSERV/SGH916TSNJ/config/config.200822.221510.0001
stats-2020-08|3PAR.INSERV/SGH916V2CC/config/config.200827.212338.0001
stats-2020-08|3PAR.INSERV/SGH919XJWD/config/config.200827.183301.0001
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stats-2020-08|3PAR.INSERV/SGH920XV0D/config/config.200827.191335.0001
stats-2020-08|3PAR.INSERV/SGH921YXS2/config/config.200827.154001.0001
stats-2020-08|3PAR.INSERV/SGH922SLC5/config/config.Feb.200827.180337.0001
stats-2020-08|3PAR.INSERV/SGH924TXWJ/config/config.Feb.200827.085400.0001
stats-2020-08|3PAR.INSERV/SGH925VFWT/config/config.200827.183508.0001
stats-2020-08|3PAR.INSERV/SGH927X7N0/config/config.200827.201556.0001
stats-2020-08|3PAR.INSERV/SGH929YHR2/config/config.200827.231114.0001
stats-2020-08|3PAR.INSERV/SGH932TWMP/config/config.200827.160121.0001
stats-2020-08|3PAR.INSERV/SGH932TWMQ/config/config.200827.072435.0001
stats-2020-08|3PAR.INSERV/SGH938SKY6/config/config.200827.224749.0001
stats-2020-08|3PAR.INSERV/SGH938STD5/config/config.200827.203457.0001
stats-2020-08|3PAR.INSERV/SGH941W6S7/config/config.200827.180404.0001
stats-2020-08|3PAR.INSERV/SGH943XQQG/config/config.200827.142932.0001
stats-2020-08|3PAR.INSERV/SGH946T1C6/config/config.200827.175215.0001
stats-2020-08|3PAR.INSERV/SGH949WFRW/config/config.200827.210250.0001
stats-2020-08|3PAR.INSERV/SGH949WG3C/config/config.200827.164434.0001
stats-2020-08|3PAR.INSERV/SGH949WG3D/config/config.200827.173901.0001
stats-2020-07|3PAR.INSERV/USE733DACJ/config/config.200710.200232.0001
```

This example demonstrates looking for the latest config file types for all arrays that are 9000 class arrays.
Be aware that this example and the previous SP example have the potential and do produce a large volume of data.
These types of searches also have the potential of taking some time longer to process compared to other searches.

s3mft -n CZ3813VV23 -filetype evtlog -sfdt="24-aug" -text "hw_ps"

```
2020/08/27 09:53:58 Start Time: 24-Aug-2020 00:00:00
2020/08/27 09:53:58 End Time:   27-Aug-2020 09:53:58


Customer Info for CZ3813VV23 (windows)
Customer              : Universitäre Psychiatrische
Array Name            : STO3PAR03
System Model          : HPE_3PAR 8200 (2 nodes)
Cage Count            : 6
System Serial Number : CZ3813VV23
HPE 10 Digit SN       : CZ3813VV23
SysID                 : 0x20BA9
Build Number          : 3.3.1.410
TPD Kernel Code       : 3.3.1.410 (MU2)
Patches Installed     : P32,P36,P39,P40,P45,P51,P52,P76,P90,P93,P96,P111,P113,P115,P127
Features In Use        : Dedupe, Deco, RC-Sync

2020-08-24 05:15:09.69 CEST    0 1695641127 Internal Communication Degraded      Power Supply AC Status
hw_node:0,hw_ps:0 General         Node 0 Power Supply 0 AC FAIL.
2020-08-24 05:15:09.69 CEST    0 1695641128 Internal Communication Degraded      Power Supply AC Status
hw_node:0,hw_ps:1 General         Node 0 Power Supply 1 AC FAIL.
2020-08-24 05:15:09.69 CEST    0 1695641129 Alert,Status change Major        Component state change
hw_node:0,hw_ps:0 Hardware check  Node 0, Power Supply 0 Failed (AC Failed {0x2})
2020-08-24 05:15:09.69 CEST    0 1695641133 Alert,Status change Major        Component state change
hw_node:0,hw_ps:1 Hardware check  Node 0, Power Supply 1 Failed (AC Failed {0x2})
2020-08-24 07:30:08.82 CEST    0   17 Notification    Informational  Power Supply Oscillating AC Failure clear
hw_ps:0    General         Node 0 PS 0: Oscillating AC Failure errors have been cleared
2020-08-24 07:30:08.82 CEST    0   18 Notification    Informational  Power Supply Oscillating AC Failure clear
hw_ps:1    General         Node 0 PS 1: Oscillating AC Failure errors have been cleared
2020-08-24 07:30:07.14 CEST    1   17 Notification    Informational  Power Supply Oscillating AC Failure clear
hw_ps:0    General         Node 1 PS 0: Oscillating AC Failure errors have been cleared
2020-08-24 07:30:07.14 CEST    1   18 Notification    Informational  Power Supply Oscillating AC Failure clear
hw_ps:1    General         Node 1 PS 1: Oscillating AC Failure errors have been cleared
2020-08-24 07:30:57.68 CEST    0 1546 Notification    Minor          Power Supply FW Revision hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1547 Notification    Minor          Power Supply FW Revision hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1548 Notification    Minor          Power Supply Fan Fail Status
hw_node:0,hw_ps:0 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1549 Notification    Minor          Power Supply Fan Fail Status
hw_node:0,hw_ps:1 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1550 Notification    Minor          Power Supply Removed hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1551 Notification    Minor          Power Supply Removed hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1552 Notification    Minor          Power Supply Status hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1553 Notification    Minor          Power Supply Status hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1554 Notification    Minor          Power Supply Switched Off
hw_node:0,hw_ps:0 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1555 Notification    Minor          Power Supply Switched Off
hw_node:0,hw_ps:1 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1556 Notification    Minor          Power Supply DC Status hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1557 Notification    Minor          Power Supply DC Status hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1558 Notification    Minor          Power Supply AC Status hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1559 Notification    Minor          Power Supply AC Status hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1560 Notification    Minor          Power Supply Overvoltage hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1561 Notification    Minor          Power Supply Overvoltage hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1562 Notification    Minor          Power Supply Undervoltage
hw_node:0,hw_ps:0 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1563 Notification    Minor          Power Supply Undervoltage
hw_node:0,hw_ps:1 General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1564 Notification    Minor          Power Supply Overcurrent hw_node:0,hw_ps:0
General        Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1565 Notification    Minor          Power Supply Overcurrent hw_node:0,hw_ps:1
General        Auto-resolve NEMOE event by Sysmgr at INIT
```

```
2020-08-24 07:30:57.68 CEST    0 1566 Notification    Minor        Power Supply Overtemp hw_node:0,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1567 Notification    Minor        Power Supply Overtemp hw_node:0,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1568 Notification    Minor        Power Supply Disabled by MCU
hw_node:0,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1569 Notification    Minor        Power Supply Disabled by MCU
hw_node:0,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1570 Notification    Minor        Power Supply Asserted Alert
hw_node:0,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1571 Notification    Minor        Power Supply Asserted Alert
hw_node:0,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1572 Notification    Minor        Power Supply I2C Failed hw_node:0,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:30:57.68 CEST    0 1573 Notification    Minor        Power Supply I2C Failed hw_node:0,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1856 Notification    Minor        Power Supply FW Revision hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1857 Notification    Minor        Power Supply FW Revision hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1858 Notification    Minor        Power Supply Fan Fail Status
hw_node:1,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1859 Notification    Minor        Power Supply Fan Fail Status
hw_node:1,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1860 Notification    Minor        Power Supply Removed hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1861 Notification    Minor        Power Supply Removed hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1862 Notification    Minor        Power Supply Status hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1863 Notification    Minor        Power Supply Status hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1864 Notification    Minor        Power Supply Switched Off
hw_node:1,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1865 Notification    Minor        Power Supply Switched Off
hw_node:1,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1866 Notification    Minor        Power Supply DC Status hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1867 Notification    Minor        Power Supply DC Status hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1868 Notification    Minor        Power Supply AC Status hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1869 Notification    Minor        Power Supply AC Status hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1870 Notification    Minor        Power Supply Overvoltage hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1871 Notification    Minor        Power Supply Overvoltage hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1872 Notification    Minor        Power Supply Undervoltage
hw_node:1,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1873 Notification    Minor        Power Supply Undervoltage
hw_node:1,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1874 Notification    Minor        Power Supply Overcurrent hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1875 Notification    Minor        Power Supply Overcurrent hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1876 Notification    Minor        Power Supply Overtemp hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1877 Notification    Minor        Power Supply Overtemp hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1878 Notification    Minor        Power Supply Disabled by MCU
hw_node:1,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1879 Notification    Minor        Power Supply Disabled by MCU
hw_node:1,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1880 Notification    Minor        Power Supply Asserted Alert
hw_node:1,hw_ps:0 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1881 Notification    Minor        Power Supply Asserted Alert
hw_node:1,hw_ps:1 General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1882 Notification    Minor        Power Supply I2C Failed hw_node:1,hw_ps:0
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:04.57 CEST    0 1883 Notification    Minor        Power Supply I2C Failed hw_node:1,hw_ps:1
General       Auto-resolve NEMOE event by Sysmgr at INIT
2020-08-24 07:31:15.96 CEST    0 4021 Status change   Informational  Component state change hw_node:0,hw_ps:0
General       Node 0, Power Supply 0 Normal
2020-08-24 07:31:15.96 CEST    0 4022 Status change   Informational  Component state change hw_node:0,hw_ps:1
General       Node 0, Power Supply 1 Normal
```

```
2020-08-24 07:31:15.96 CEST    0 4024 Status change   Informational   Component state change hw_node:1,hw_ps:0
General        Node 1, Power Supply 0 Normal
2020-08-24 07:31:15.96 CEST    0 4025 Status change   Informational   Component state change hw_node:1,hw_ps:1
General        Node 1, Power Supply 1 Normal
2020-08-24 07:31:52.90 CEST    0 17139 Status change   Informational   Component state change hw_node:0,hw_ps:0
General        Node 0, Power Supply 0 Normal
2020-08-24 07:31:52.90 CEST    0 17140 Status change   Informational   Component state change hw_node:0,hw_ps:0
General        Node 0, Power Supply 0 Normal
2020-08-24 07:31:52.90 CEST    0 17141 Status change   Informational   Component state change hw_node:0,hw_ps:1
General        Node 0, Power Supply 1 Normal
2020-08-24 07:31:52.93 CEST    0 17142 Status change   Informational   Component state change hw_node:0,hw_ps:0
General        Node 0, Power Supply 0 Normal
2020-08-24 07:31:52.93 CEST    0 17143 Status change   Informational   Component state change hw_node:0,hw_ps:0
General        Node 0, Power Supply 0 Normal
2020-08-24 07:31:52.93 CEST    0 17144 Status change   Informational   Component state change hw_node:0,hw_ps:1
General        Node 0, Power Supply 1 Normal
```

Here we demonstrate looking for specific file type starting on a particular date and then searching these files for a particular string. Should that string be found, the record is displayed.

s3mft -filetype crashtxt,apptxt -sfdt="-1d"

```
2020/08/27 10:01:06 Start Time: 26-Aug-2020 10:01:06
2020/08/27 10:01:06 End Time:   27-Aug-2020 10:01:06


stats-2020-08|3PAR.INSERV/CZ29500FSX/apptxt/apptxt.200826.133756.0630
stats-2020-08|3PAR.INSERV/4UW0002942/apptxt/apptxt.200827.013152.2522
stats-2020-08|3PAR.INSERV/1600017/crashtxt/crashtxt.200826.103948.13962791
stats-2020-08|3PAR.INSERV/1600017/crashtxt/crashtxt.200826.103950.19238596
stats-2020-08|3PAR.INSERV/1600017/crashtxt/crashtxt.200826.105500.678689
stats-2020-08|3PAR.INSERV/1600017/crashtxt/crashtxt.200826.105549.95543376
stats-2020-08|3PAR.INSERV/1600017/crashtxt/crashtxt.200826.111826.42943320
stats-2020-08|3PAR.INSERV/1631044/crashtxt/crashtxt.200826.143033.51545836
stats-2020-08|3PAR.INSERV/CZ3629F6F5/crashtxt/crashtxt.200827.055219.47857009
stats-2020-08|3PAR.INSERV/CZ20040GRB/crashtxt/crashtxt.200827.084017.4463
```

s3mft -filename "stats-2020-08|3PAR.INSERV/CZ20040GRB/crashtxt/crashtxt.200827.084017.4463" -regex "DATE|NODE|PANIC" -h

```
Customer Info for CZ20040GRB (windows)
Customer             : Hutchison Drei Austria GmbH
Array Name           : av1x071p
System Model         : HPE_3PAR A670 (4 nodes)
Cage Count           : 4
System Serial Number : CZ20040GRB
HPE 10 Digit SN      : CZ20040GRB
SysID                : 0x256B3
Build Number         : 4.0.3.4
TPD Kernel Code      : 4.0.1.3
Patches Installed    : 3,2
Features In Use      : Deco


CZ20040GRB->crashtxt.200827.084017.4463@31:        DATE: Wed Aug 26 16:46:13 2020
CZ20040GRB->crashtxt.200827.084017.4463@35:    NODENAME: CZ20040GRB-3
CZ20040GRB->crashtxt.200827.084017.4463@40:       PANIC: "Fatal exception"
```

s3mft -filename "stats-2020-08|3PAR.INSERV/CZ20040GRB/crashtxt/crashtxt.200827.084017.4463" -so

The first example on this page is very similar to previous examples where one is looking for specific file types within a specific time range. We use the list of files to locate a specific file of interest. The second example on this page demonstrates the ability of S#MFT to look at a single specific file and perform an "egrep" type search on the data within the file. The –h switch tells S3MFT to prefix the matching record with the array serial number, the name of the file and the line number of the matching record. The last command, will display the specified files content to the screen and if there was a need to download it onto the system from whence the command was issued, change **–so** to **–fo**.

8. Usage Comparisons

STLATEST vs S3MFT

STLATEST as you know it today...

```
cxo-datamine-04:~$ stlatest -n 1642005
/share/st704/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/alert/alert.200817.023741.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/biosmsg/biosmsg.200823.095046.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/chkupg/CHKUPG.200825.095053.0001
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/chkupg/CHKUPG.200417.033705.CKUP
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/config/config.200825.095217.0001
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/config/config.200417.032937.BAD
/share/st636/prod/data/files/3PAR.INSERV/TierTwo/2020-05/1642005/crashdmp/crashdmp.200517.190944.80057547
/share/st635/prod/data/files/3PAR.INSERV/TierTwo/2020-05/1642005/crashtxt/crashtxt.200517.190250.96979063
/share/st270/prod/data/files/3PAR.INSERV/TierTwo/2018-06/1642005/custdata/custdata.180617.134901.87804247
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/eeprom/eeprom.200823.095044.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/environ/environ.200825.095043.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/event/event.200825.115111.1+347746
/share/st534/prod/data/files/3PAR.INSERV/TierTwo/2020-
01/1642005/evtlog/evtlog.200106.160030.debug.SP0001642005.fbf02e
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/evtlog/evtlog.200825.115040.debug
/share/st371/prod/data/files/3PAR.INSERV/TierTwo/2019-04/1642005/evtlog/evtlog.190414.003853.swupd
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/hostconf/hostconf.200825.095049.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/hwinvent/HWINVENT.200825.095053.0001
/share/st704/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/hwinvent/HWINVENT.200816.090701.BAD
/share/st607/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/insplore/insplore.200417.042100.34108472
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/memdata/memdata.200825.095049.0001
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/perfdb/perfdb.200417.033218.0001
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/perform/perform.200825.102427.0001
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/perform/perform.200417.033526.BAD
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/srhires/srhires.200825.115111.1-000214
/share/st462/prod/data/files/3PAR.INSERV/TierTwo/2019-
09/1642005/status/status.190918.113405.lite.SP0001642005.65b9b7
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/status/status.200417.033749.full
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/status/status.200824.215055.lite
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/sysinfof/sysinfof.200417.041457.0-000003
/share/st610/prod/data/files/3PAR.INSERV/TierTwo/2020-04/1642005/updatlog/updatlog.200417.033210.86062741
/share/st710/prod/data/files/3PAR.INSERV/TierTwo/2020-08/1642005/vmcollec/vmcollec.200825.095037.19745550
```

STLATEST via S3MFT...

```
>s3mft -n 1642005 -stlatest

stats-2020-08|3PAR.INSERV/1642005/alert/alert.200817.025039.0001
stats-2020-08|3PAR.INSERV/1642005/biosmsg/biosmsg.200823.095046.0001
stats-2020-08|3PAR.INSERV/1642005/chkupg/CHKUPG.200825.095053.0001
stats-2020-08|3PAR.INSERV/1642005/config/config.200825.095217.0001
stats-2020-05|3PAR.INSERV/1642005/crashdmp/crashdmp.200517.190944.80057547
stats-2020-05|3PAR.INSERV/1642005/crashtxt/crashtxt.200517.190250.96979063
stats-2020-08|3PAR.INSERV/1642005/eeprom/eeprom.200823.095044.0001
stats-2020-08|3PAR.INSERV/1642005/environ/environ.200825.095043.0001
stats-2020-08|3PAR.INSERV/1642005/event/event.200825.125142.1+349181
stats-2020-08|3PAR.INSERV/1642005/evtlog/evtlog.200825.125040.debug
stats-2020-08|3PAR.INSERV/1642005/hostconf/hostconf.200824.095049.0001
stats-2020-08|3PAR.INSERV/1642005/hwinvent/HWINVENT.200825.095053.0001
stats-2020-08|3PAR.INSERV/1642005/memdata/memdata.200825.095049.0001
stats-2020-08|3PAR.INSERV/1642005/perform/perform.200825.102427.0001
stats-2020-08|3PAR.INSERV/1642005/srhires/srhires.200825.115111.1-000214
stats-2020-08|3PAR.INSERV/1642005/status/status.200824.215055.lite
stats-2020-08|3PAR.INSERV/1642005/vmcollec/vmcollec.200825.095037.19745550
```

The differences between these outputs are a result of S3MFT only returning the latest file based on file type and the "file name" having the standard format. The standard format is a file name consisting of 4 parts:

1. File type

2. Date – YYMMDD
3. Time – HHMMSS
4. Suffix

If the file name deviates from this format it will not be displayed. Secondly, S3MFT will not return file objects that have the suffix of "BAD" or "CORRUPT". Lastly, S3MFT does use a concept of sub-types based on the suffix field.

STALL vs S3MFT

STALL as you know it today…

```
$ stall -n 1642005
drwxr-xr-x+ 18 stapp csst 18 Feb 10  2017 /share/st137/prod/data/files/3PAR.INSERV/TierTwo/2017-02/1642005/
drwxr-xr-x+ 18 stapp csst 18 Feb 27  2017 /share/st142/prod/data/files/3PAR.INSERV/TierTwo/2017-02/1642005/
drwxr-xr-x+ 14 stapp csst 14 Mar  6  2017 /share/st142/prod/data/files/3PAR.INSERV/TierTwo/2017-03/1642005/
drwxr-xr-x+ 14 stapp csst 14 Mar 13  2017 /share/st146/prod/data/files/3PAR.INSERV/TierTwo/2017-03/1642005/
drwxr-xr-x+ 12 stapp csst 12 Apr  3  2017 /share/st149/prod/data/files/3PAR.INSERV/TierTwo/2017-03/1642005/
drwxr-xr-x+ 15 stapp csst 15 Apr  5  2017 /share/st149/prod/data/files/3PAR.INSERV/TierTwo/2017-04/1642005/
drwxr-xr-x+ 15 stapp csst 15 Apr 24  2017 /share/st151/prod/data/files/3PAR.INSERV/TierTwo/2017-04/1642005/
drwxr-xr-x+ 14 stapp csst 14 May  1  2017 /share/st151/prod/data/files/3PAR.INSERV/TierTwo/2017-05/1642005/
drwxr-xr-x+ 14 stapp csst 14 May  8  2017 /share/st156/prod/data/files/3PAR.INSERV/TierTwo/2017-05/1642005/
drwxr-xr-x+  7 stapp csst  7 May 25  2017 /share/st157/prod/data/files/3PAR.INSERV/TierTwo/2017-05/1642005/
drwxr-xr-x+ 14 stapp csst 14 May 29  2017 /share/st160/prod/data/files/3PAR.INSERV/TierTwo/2017-05/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jun  5  2017 /share/st160/prod/data/files/3PAR.INSERV/TierTwo/2017-06/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jun 19  2017 /share/st167/prod/data/files/3PAR.INSERV/TierTwo/2017-06/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jul  3  2017 /share/st167/prod/data/files/3PAR.INSERV/TierTwo/2017-07/1642005/
drwxr-xr-x+  7 stapp csst  7 Jul  5  2017 /share/st171/prod/data/files/3PAR.INSERV/TierTwo/2017-07/1642005/
drwxr-xr-x+ 15 stapp csst 15 Jul 15  2017 /share/st170/prod/data/files/3PAR.INSERV/TierTwo/2017-07/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jul 24  2017 /share/st175/prod/data/files/3PAR.INSERV/TierTwo/2017-07/1642005/
drwxr-xr-x+ 14 stapp csst 14 Aug  7  2017 /share/st175/prod/data/files/3PAR.INSERV/TierTwo/2017-08/1642005/
drwxr-xr-x+ 15 stapp csst 15 Aug 26  2017 /share/st179/prod/data/files/3PAR.INSERV/TierTwo/2017-08/1642005/
drwxr-xr-x+ 14 stapp csst 14 Aug 28  2017 /share/st183/prod/data/files/3PAR.INSERV/TierTwo/2017-08/1642005/
drwxr-xr-x+ 15 stapp csst 15 Sep  4  2017 /share/st183/prod/data/files/3PAR.INSERV/TierTwo/2017-09/1642005/
drwxr-xr-x+ 14 stapp csst 14 Sep 11  2017 /share/st186/prod/data/files/3PAR.INSERV/TierTwo/2017-09/1642005/
drwxr-xr-x+ 14 stapp csst 14 Sep 25  2017 /share/st189/prod/data/files/3PAR.INSERV/TierTwo/2017-09/1642005/
drwxr-xr-x+ 14 stapp csst 14 Oct  2  2017 /share/st189/prod/data/files/3PAR.INSERV/TierTwo/2017-10/1642005/
drwxr-xr-x+ 14 stapp csst 14 Oct  9  2017 /share/st193/prod/data/files/3PAR.INSERV/TierTwo/2017-10/1642005/
drwxr-xr-x+ 14 stapp csst 14 Oct 23  2017 /share/st195/prod/data/files/3PAR.INSERV/TierTwo/2017-10/1642005/
drwxr-xr-x+ 12 stapp csst 12 Nov  1  2017 /share/st195/prod/data/files/3PAR.INSERV/TierTwo/2017-11/1642005/
drwxr-xr-x+ 14 stapp csst 14 Nov  6  2017 /share/st198/prod/data/files/3PAR.INSERV/TierTwo/2017-11/1642005/
drwxr-xr-x+ 14 stapp csst 14 Nov 20  2017 /share/st201/prod/data/files/3PAR.INSERV/TierTwo/2017-11/1642005/
drwxr-xr-x+  7 stapp csst  7 Jun 17  2018 /share/st270/prod/data/files/3PAR.INSERV/TierTwo/2017-11/1642005/
drwxr-xr-x+  3 stapp csst  3 Jun 17  2018 /share/st271/prod/data/files/3PAR.INSERV/TierTwo/2018-06/1642005/
drwxr-xr-x+ 17 stapp csst 17 Jun 17  2018 /share/st270/prod/data/files/3PAR.INSERV/TierTwo/2018-06/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jul  1  2018 /share/st270/prod/data/files/3PAR.INSERV/TierTwo/2018-07/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jul  8  2018 /share/st275/prod/data/files/3PAR.INSERV/TierTwo/2018-07/1642005/
drwxr-xr-x+ 14 stapp csst 14 Jul 22  2018 /share/st279/prod/data/files/3PAR.INSERV/TierTwo/2018-07/1642005/
drwxr-xr-x+ 12 stapp csst 12 Aug  1  2018 /share/st279/prod/data/files/3PAR.INSERV/TierTwo/2018-08/1642005/
drwxr-xr-x+ 14 stapp csst 14 Aug  5  2018 /share/st284/prod/data/files/3PAR.INSERV/TierTwo/2018-08/1642005/
drwxr-xr-x+ 15 stapp csst 15 Aug 22  2018 /share/st288/prod/data/files/3PAR.INSERV/TierTwo/2018-08/1642005/
drwxr-xr-x+ 14 stapp csst 14 Sep  2  2018 /share/st288/prod/data/files/3PAR.INSERV/TierTwo/2018-09/1642005/
drwxr-xr-x+ 14 stapp csst 14 Sep  9  2018 /share/st293/prod/data/files/3PAR.INSERV/TierTwo/2018-09/1642005/
drwxr-xr-x+ 14 stapp csst 14 Sep 23  2018 /share/st297/prod/data/files/3PAR.INSERV/TierTwo/2018-09/1642005/
drwxr-xr-x+ 12 stapp csst 12 Oct  1  2018 /share/st297/prod/data/files/3PAR.INSERV/TierTwo/2018-10/1642005/
drwxr-xr-x+ 14 stapp csst 14 Oct  7  2018 /share/st302/prod/data/files/3PAR.INSERV/TierTwo/2018-10/1642005/
drwxr-xr-x+ 14 stapp csst 14 Oct 21  2018 /share/st306/prod/data/files/3PAR.INSERV/TierTwo/2018-10/1642005/
drwxr-xr-x+ 12 stapp csst 12 Nov  1  2018 /share/st306/prod/data/files/3PAR.INSERV/TierTwo/2018-11/1642005/
drwxr-xr-x+ 15 stapp csst 15 Nov 10  2018 /share/st311/prod/data/files/3PAR.INSERV/TierTwo/2018-11/1642005/
drwxr-xr-x+ 14 stapp csst 14 Nov 18  2018 /share/st316/prod/data/files/3PAR.INSERV/TierTwo/2018-11/1642005/
drwxr-xr-x+ 14 stapp csst 14 Dec  2  2018 /share/st316/prod/data/files/3PAR.INSERV/TierTwo/2018-12/1642005/
drwxr-xr-x+ 14 stapp csst 14 Dec  9  2018 /share/st321/prod/data/files/3PAR.INSERV/TierTwo/2018-12/1642005/
drwxr-xr-x+ 14 stapp csst 14 Dec 23  2018 /share/st326/prod/data/files/3PAR.INSERV/TierTwo/2018-12/1642005/
drwxr-xr-x+ 12 stapp csst 12 Dec 31  2018 /share/st332/prod/data/files/3PAR.INSERV/TierTwo/2018-12/1642005/
```

STALL via S3MFT…

```
>s3mft.exe  -n 1642005 -stall
```

```
Bucket stats-2020-03 contains data matching search criteria.
Bucket stats-2020-04 contains data matching search criteria.
Bucket stats-2020-05 contains data matching search criteria.
Bucket stats-2020-06 contains data matching search criteria.
Bucket stats-2020-07 contains data matching search criteria.
Bucket stats-2020-08 contains data matching search criteria.
```

While the original "stall" utility lists each file system directory where data could be found for the serial number specified, S3MFT will list each "bucket" where data exists for the specified serial number. Bear in mind, in terms of the HPE AWS S3 solution a "bucket" would be synonymous with a file system top level directory, there are no sub-directories in the AWS S3 architecture.

9. Fixes and New Features

V3.0180

- Corrected a problem with the metric search option, "-s", that involves the single occurrence of special characters in the specified metric filter and the search method that uses that filter.
- The default to display the contents of a file object when "-filename" is the only switch used has been fixed.
- Fixed a single output statement to output to STDOUT rather than STDERR. This single output statement is in the multiple file fetch routine describing the action of the file object and the "serial number" is belongs to.
- Revert output back to current working default regardless of OS when user has not specified a different output directory location.

V3.0185

- Added the file type "hwinvent" to the file type list of the "-a" switch.
- Updated a bucket check for determining proper formatting of the "filedatetime" tag.

V3.0190

- Corrected serial number lookups, for older arrays, to handle translating 10 character alphanumeric serial numbers to their corresponding 7 digit serial number.
- Prevent the use of the "-D" or "-G" switches when neither "-s" or "-m" switches are present.
- Fixed an issue with parsing some file names having an 8 digit year.

V3.0194

- Additional changes made with regards to various filename formats.
- Fixed a "-s" pattern matching issue.
- To output of start time and end time messages will require "-dbg" to se to at least 1.
- Made some minor output formatting changes.

V3.0196

- Corrected one of the metric regular expressions as it had be reverted during the search routine re-writes. (BOSS-114)

V4.0230

- Can use "@<filename> with the "-n" switch to input multiple serial number. (BOSS-129)
- Can use "@<filename> with the "-filename" switch to input multiple files. (BOSS-130)
- Added a time zone designation to file information header in "showfield" emulation mode. (BOSS-131)
- Corrected the documentation for "-m" and "-s" to reflect the requirement of the "-n" or "filename" switches. (BOSS-132)
- Enabled the use of the "-m" or "-s" switch with the "-filename" switch. (BOSS-133)
- Improved performance via additional multithreading. (BOSS-134)
- Modified logging to improve performance and cooperate with the multithreading changes. **An s3mft.log file is now created in your current working directory.** (BOSS-135)

V4.0240

- Additional memory improvements made to the multithreading updates. (BOSS-134)

V4.0245

- Added an SP name/serial-number lookup for phone home verification purposes. (BOSS-137)
- Added capability to search the ITG data bucket. (BOSS-138)
- Use of a log file has been removed.(BOSS-135,136,142 rescinded)
- Changed the default value for –efdt to be 24 hours in the future from the current system time. (BOSS-146)
- Corrected an output issue when using –s or –m. (BOSS-139)
- Corrected several documentation issues. (BOSS-144)
- Fixed an issue when attempting to decompress multiple files. (BOSS-145)
- Corrected an issue when an ambiguous date/time provided. (BOSS-143)
- Updated the S3MFT to recognize that the April 2020 bucket has had its file date time key reformatted. (BOSS-147)
- The –q switch will now also suppress the serial number translation message. (BOSS-141)
- Added 2 new file header switches enabling the display of "brief" file header data. (BOSS-151)
- Added the –bdump switch to fix an issue with dumping binary data to STDOUT. (BOSS-152)
- Updated and enhanced output to STDOUT and STDERR. (BOSS-153)
- Fixed an issue with "too many open files" error. (BOSS-149)
- Fixed an issue with parsing and interpreting the use of a tilde(~) in a file path.(BOSS-148)

V4.0248

- Squelched the parsing messages regarding filenames with "BAD" or "CORRUPT" at the end. (BOSS-154)
- Corrected the exit status when S3MFT returns "No data found matching the specified search selection criteria.". (BOSS-155)

V4.0294

- Corrected a date formatting validation issue introduced in BOSS-155 in V4.0248. (BOSS-156)

V4.0300

- Changes made regarding the decompression of data either from a buffer from a downloaded file have been made to reduce memory consumption in an effort to mitigate S3MFT from failing an OOM panic. (BOSS-157)
- Added a new switch, "-fnp", to add the prefix "array_<serial#>_ to file names when downloaded to disk in mass. (BOSS-160)
- Changed initialization of memory buffer when utilizing downloads to buffers to help reduce memory consumption. (BOSS-161)

V4.0304

- Changes made regarding automatic bucket selection when using –sfdt and selecting a first of the month date and/or when using –efdt with the last day of a month specified. (BOSS-162)