

In this presentation, we will explain how to read the CAMS2 GetStatus reports and the status\_check reports.

The status reports are only compatible with a CAMS2 system running based on Steve Rau's LaunchCapture and Dave Samuels' upload and archiving scripts.





1. Header Sec	tion		*CAMS
			Title and L aunch time
Sat 12/22/2018 11:03:55.63 - Ve; [GetStatus.bat:SETUP ] Please u ####################################	rsion: 3.000 - D:\cams2_queu wait ##################################	== a\RunFolder\GetStatus.bat [ !####################################	Unique Station Name
TIMESTAMP ZONE  Current UTC Current Local time	<pre>yyyy-mm-dd hh:mm:ss.ddd zzz 2018-12-22T19:04:01.060+00: 2018-12-22T11:04:01.279-08:</pre>	zz  000	UTC and Local time at start of report
ARCHIVE TYPE DAYS MaxDaysToKeep 30 MaxDays_Transmitted 60 MaxDays_Cal 365	OLDEST DATE 2018_11_22 2018_10_23 2017_12_22	DETVE STVE	Archive Settings
C: WINDOWS Drive free D: CAMS Drive free sp d: CAMS Archive free :	space. 57.764 GB ace. 397.086 GB space GB	111.126 GB 5,767.167 GB Same as CAMS Drive	
) 2018 David Samuels, All rights reserved.	CAMS2	GetStatus Reports	1-4

The **Title and Launch time** is a header that is standard with all my batch files. It also shows any command line arguments, however in this case, GetStatus.bat does not require any.

**Unique Station Name** – The unique station name is a combination of the first camera on the site, plus the last two columns from the CameraSites.txt file for that camera.

**UTC and Local time at start of report** – This is displayed in universal format. The purpose is to help you know the exact time and date information, both local and UTC, when the report was started.

Archive Settings – This is to show you how much data you should expect to see in the various sections.

**Storage Information** – This section shows you storage information for three areas. The Windows drive, the CAMS working drive, and the CAMS Archive drive. In some cases, like West Melton, all three are drive C:. In other cases, like Arizona, they have more than 3 drives, but we report on only the CAMS related drives.

Tr	ransmitte	ed Se	ection		distant.	*CAMS
• The Transmitted section reports the last 10 capture sessions verified as successfully uploaded from all capture boards.						
• The capture session is uniquely identified by the date_camera_time_count.						
<ul> <li>Where camera is the first camera in that capture card.</li> <li>Each .zip file should have a matching .md5.txt file.</li> </ul>						
• ' • ]	Where cam Each .zip f	ile shc	the first camera ould have a mate	in that c hing .mo	apture card.	
• ]	Where cam Each .zip f	ile shc	the first camera ould have a mate	in that c	apture card. 15.txt file. Queue sec	tion heading
• ]	Where cam Each .zip f	ile sho	the first camera ould have a mate	ching .mc	apture card. 15.txt file. Queue sec ?_*.zip*◀	tion heading
• ]	Where cam Each .zip f	ile sho	the first camera ould have a mate	ching .mo	apture card. 15.txt file. Queue sec	tion heading
NOTE: E     COUNT	Where cam Each .zip fr * Listing the 10 most ref Each zip should have a m DATE TIME	tera is ile sho	the first camera ould have a mate	n in that c ching .mc ransmitted\????_?_^	apture card. 15.txt file. Queue sec   	tion heading
NOTE: F COUNT 	Where cam Each .zip f: * Listing the 10 most rev Each zip should have a m DATE TIME 12/22/2018 09:33 AM 12/22/2018 10:56 AM 12/22/2018 10:56 AM 12/21/2018 09:33 AM 12/21/2018 09:33 AM 12/21/2018 09:33 AM 12/20/2018 09:33 AM 12/20/2018 09:33 AM	Cent Transmitt atching ** .mdf 	the first camera ould have a mate ould have a mate ted "d:\cams2_queue\T 5.txt" file. FILE NAME 2018 12 22 000555 01 34 06 01.zip 2018 12 22 000555 01 32 44 01.zip 2018 12 22 000555 01 32 20 1.zip 2018 12 21 00055 01 33 37 01.zip 2018 12 21 00055 01 33 39 01.zip 2018 12 21 00055 01 33 39 01.zip 2018 12 20 00055 01 33 09 01.zip 2018 12 20 00055 01 30 02 50 1.zip 2018 12 20 00055 01 32 43 01.zip	In that c           ching .mc           ching .mc           ransmitted\????_?_?_           ND5.TXT           2018_12_22_000545           2018_12_22_000545           2018_12_22_000547           2018_12_22_000545           2018_12_21_000545           2018_12_21_000545           2018_12_20_000545           2018_12_20_000545           2018_12_20_000545           2018_12_20_000545	apture card. 45.txt file. Queue sec 	tion heading

The Queue section is shared between all the CAMS Instances. Therefore, it is considered "global".

The Queue section reports on two parts, the <u>Transmitted dir</u> and the Queue dir. The section heading shows you the exact directory where this information can be found.

#### **Transmitted dir**

What you're looking for in this section are (a) That all transmitted File Names have a matching MD5.txt file. (b) the size of the zip files are normal.

Files only get moved to the Transmitted dir "after" a successful upload has been verified as complete and successful. Any failed uploads will remain in the queue and they will be retried.

If a zip file exists in the Transmitted dir without a matching .md5.txt file, then there is some kind of processing error or someone has manually manipulated the files in the directory.

The Date/Time shown are the windows timestamp of the zip file when it was created.

The Size is in MB, which represents the size of the zip file that was uploaded to the server.

Since the Transmitted dir can contain a lot of entries, the report only includes the 10 most recent files in the directory.



The Queue section is shared between all the CAMS Instances. Therefore, it is considered "global".

The section heading shows you the exact directory where this information can be found.

### Queue dir

Files that exist in the queue dir are files that are ready to be uploaded to the server and that will be uploaded the next time the upload\_queue.bat script performs its function. It is also possible that, if the upload\_queue.bat script is currently running, the file will be uploaded in a few minutes by the currently running upload queue.bat pass.

The queue directory listing follows the same format as the Transmitted dir format.



The <u>CAMS Instance</u> section has one section of CapturedFiles, SubmissionFiles, and CAL files for each CAMS Instance (or board).

**CapturedFiles sessions** – Identifies **ALL** Capture sessions for this board that remain unprocessed. There should be no CapturedFiles sessions unless LaunchCapture is still running. Each CapturedFiles session is "moved" into the SubmissionFiles directory tree when it is processed.



The <u>CAMS Instance</u> section has one of these sections for each CAMS Instance (or board). It's divided into 4 sections:

**Heading** – Identifies the board number

**SubmissionFiles sessions** – This section shows only the 10 most recent SubmissionFiles sessions. For each session, it shows the size of the entire directory (ArchivedFiles, CapturedFiles, ConfirmedFiles, FTP, and Logs) along with the total number of files under the directory. This is not just the number of FF files, but the total number of files. A higher than normal number here might indicate that there are excessive noisy files in the ArchivedFiles dir. The status fields are as follows:

**Detections** – This is the number of detections in the detect file, if there is one. The detections are listed as a Total, and then for each camera. An excessively high number of detections can be an indication of a bad camera.

Validate – DONE means that the FTP\_ValidateFFfiles.exe tool was run and cleaned up all the corrupt FF files.

AutoCal – DONE means that FTP\_MeteorCal\_AutoUpdate.exe was not only run, but completed. Detect – DONE means that FTP\_DetectMultipleFF.exe was run and produced a detect file that has updated the Meteor Count field in the top of that file.

**Transmitted** – DONE means that a zip file with a matching .md5.txt file, which match the date\_camera\_time of the SubmissionFiles session, are found in the Queue\Transmitted dir. Thus, that session is completed.

Each SubmissionFiles session has a camera details section (see description on the next page).



For each SubmissionFiles section, there is a subsection that describes the details for each camera. There are 9 sections/columns for these details:

- **Capture session** The SubmissionFiles capture session with date\_camera\_time format to unuiquely identify the session. These should all be the same for each camera.
- **Camera** The camera number that's being reported. (Extracted from the detect file)
- Detections Detections for this specific camera only. (Calculated from the detect file)
- FOV Field of View in degrees, height by width. (Comes from the specified CAL file)
- **Image Scale** Image scale in arc minutes per pixel. This should not change from night to night. (Comes from the specified CAL file)
- CAL File CAL file referred to in the detect file. If calibration failed today, it should show a previous date in the CAMS timestamp. (Extracted from the detect file).
- **Channel** For multi-channel boards, this shows which channel number it was assigned to. (Deduced from CaptureStats.log).
- **Dropped Frames total** DONE means that FTP\_DetectMultipleFF.exe was run and produced a detect file that has updated the Meteor Count field in the top of that file. (Extracted from CaptureStats.log)
- Dropped Frames per minute DONE means that FTP\_DetectMultipleFF.exe was run and produced a detect file that has updated the Meteor Count field in the top of that file. (Extracted from CaptureStats.log)

6. CAL files section	*CAMS
• The board number/CAMS Instance number will be shown at the top.	
• The 20 most recent CAL files are shown, with their size and creation dates	
Cams Instance number	
Processing board=0 of 0 to 2	N         N
Listing 20 most recent Cal files         ""d:\Cams2_Board0\CAMS\Cal\CAL*.txt"           COUNT         DATE TIME         EYTES           1         12/22/2018 09:09 AM         8148           2.         12/22/2018 09:09 AM         8148           3.         12/22/2018 09:09 AM         8138           4.         12/22/2018 09:09 AM         8138           5.         12/22/2018 09:09 AM         8184           4.         12/22/2018 09:09 AM         8184           5.         12/22/2018 09:09 AM         8184           6.         12/22/2018 09:09 AM         8148           6.         12/22/2018 09:09 AM	Image: Second
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<u>Cal Files section</u> - The Cal File section contain a list of the 20 most recent Cal files in the Cal files directory for this board. For each cal file, we list the windows timestamp, the size in bytes, and the full path to the cal file name. You can see from this section whether some of the cameras have calibrated or not. The size of the Cal file indicates how many n-Stars the cal file used.

One thing you can look for here is when was the last time calibration was successful.



The Archiving section has 4 sections:

- 1. Archive directory location
- 2. Archive Settings
- 3. Archived files List of the 10 most recent archived files and their size.
- 4. Total size of the entire archive directory



This section lists the running processes. This information can be useful to identify hung LaunchCapture processes or hung detection passes. Each section in here lists the status of one of the 7 phases of a capture session.







# NASA **Status Check Reports** CAMS • Designed so that site operators or network operators can get a quick snapshot of the status of all their sites This script "reads" the GetStatus reports off the server ٠ • Only reports on problem areas • Some sections have 3 levels of warning: WARNING – something to be aware of WATCH – probably something to fix or watch closely CRITICAL – something you must fix It gets the GetStatus reports off the server so that it can check the • status on systems that are down CAMS2 GetStatus Reports 1-14 © 2018 David Samuels. All rights reserved

## How to Run Status check CAMS • From a ... \cams2 queue \RunFolder command prompt • status check "...\temp\status" status check xxx.txt Where: XXX identifies your network Example: ٠ status check "... \temp\status" "d:\cams2 queue\RunFolder\status check cams.txt" • Produces a status check xxx.txt file and status check xxx.html file in the queue directory. • Launches the HTML file in your browser • All the data comes from GetStatus files from the server, not from your local computer • The last argument defines the network status check file. It is a file that lists the GetStatus filespec for the first camera for each board at each site CAMS2 GetStatus Reports 1-15 2018 David Samuels. All rights reserve

There are several status check "network" files in the RunFolder, one for each CAMS network. Each contains a list of the first cameras for each board in a site's GetStatus report. You can use wildcards, for example: 004??? for Arkansas, since all their camera numbers are allocated in the 4000 range.

### **Status Check HTML file** CAMS Each station starts with "Station: #########" ٠ The "File" refers to a local copy of the GetStatus report file. • • Clicking on the link opens that GetStatus report for further examination Click the Back button in the browser to return to the status check ٠ report **Examples:** • File: 3.000 Total Detections=1059 GetStatus 000525 FP Fremont Peak.txt [2021-06-03T09:50:33.185-07:00 2021-06-03T16:50:32.904+00:00 UTC] 000527 Detections=000029/1059 \*\*\*\*\* EXCESSIVE DROPPED FRAMES 78894 dropped 161.76 dropped/min File: 3.000 Total Detections=583 GetStatus 000900\_DC\_DiscoveryChannel\_txt [2021-06-03T10:17:22.181-07:00 2021-06-03T17:17:22.150+00:00 UTC] [2021-06-03T10:20:22.024-07:00 2021-06-03T17:20:21.993+00:00 UTC] File: 3.000 Total Detections=1071 000931 Detections=001015/1071 WARNING - CHECK CAMERA NOISE File: 3.000 Total Detections=1810 GetStatus\_000941\_ER\_Prescott.txt [2021-06-03T09:42:35.564-07:00 2021-06-03T16:42:35.517+00:00 UTC] File: 3.000 Total Detections=90 GetStatus 000957 MC\_Meteor\_Crater.txt [2021-06-03T08:26:20.408-07:00 2021-06-03T15:26:20.361+00:00 UTC] 1-16 © 2018 David Samuels. All rights reserved.