How to Avoid Flight Log Download Validation Issues With Cambridge 302 and 302A Units

This document describes how to avoid validation issues with Cambridge 302 products. This applies to OLC validation and validation for any badge or record flight.

I have never had a problem with a file downloaded from a 302 using the Cambridge 300 Utility on a Pocket PC or PC. However, I have heard 2nd hand reports of 302 files that seem to download OK, but then fail the security checks on the OLC web site. The same files would also fail any security check for a badge or record flight. If the security seal is in fact valid on the 302, then I've heard that re-downloading the flight log may solve the problem. That implies that the problem is a download issue. That will only work if the security seal is OK of course.

To summarize, the flight log validation failures with 302 and 302A units (which I have not seen first hand) are probably caused by 1 of 2 things.

1. The 302 or 302A is not sealed. On very rare occasions I have heard of 302 units that lost their security seals. I can't explain why that happened. The solution to this issue is to have the unit re-sealed and the factory or a Cambridge authorized repair center.
2. The flight log download process had a "hiccough" and the downloaded file was not secure. The solution to this problem is to simply re-download the flight log again. It is possible to check the validity of the file immediately after downloading it (see below).

To check the security Seal on a 302 (without a 303 display attached).
From the home screen
1. Press the knob/button on the front of the 302 9 times (slowly) to get to screen 10 (displays as a zero on the right side of the screen). "IAS" is displayed on the bottom of the screen.
2. Rotate the knob until you see either "Good Seal" or "Bad Seal". That is the status of the security seal.

If you have a Cambridge 303 LCD Navigation Display attached to the 302 then the status of the security seal is displayed at power-up.

To download a flight log and check its security using the Cambridge 300 Utility on a PC or Pocket PC.
 Be sure you are using the latest version of the Cambridge 300 Utility (currently 2.57). It is available here: http://www.cambridge-aero.com/300series.htm at the bottom of the page.
1. Run the 300 Utility
2. Press the "Transfer Flight Logs" button
3. A list of flight logs will be displayed, select the desired flight log from the list.
4. Press the "Transfer" button
5. When done a status window is displayed.   It is probably accurate, but be sure to check the security of the file as described below. Press OK to close the download status window.

6. Always, always, verify that the flight log is secure by pressing the "Verify Files" button and selecting the desired file. Tip - If you tap the "Date" column the files will be sorted by their creation date. Tap it again to reverse the order. A window will appear and verify the security of the file. You should see "Log Data Integrity OK, Signature Data Integrity OK, Security OK". If any of those does not show "OK" then try re-downloading the file again and re-verifying the file.

Please let me know if you have any tips or feedback.

Good Soaring,

Paul Remde
Cumulus Soaring, Inc.
http://www.cumulus-soaring.com