Background

It has always been the intention of the TWAIN Working Group to have more than one path for driver certification on all supported platforms. Currently there is only one tool that only runs on one platform.

Proposal

Produce an open source TWAIN driver certification application that can be adopted and extended by anyone for use on Windows, Mac and Linux.

Deadline for Project Completion

February 1, 2020

Description

The TWAIN Driver certification tool must test all criteria described in the *TWAIN Specification v2.4* and produce a report that can be used for self-declaring. This includes the following:

- Basic checks
    - Driver must report protocol version 2.2 or higher.
    - Driver must natively support 64-bit.

- Mandatory driver features (DATs, CAPs, etc) must be present and behave as expected, as per the section titled *Requirements for a Source to be TWAIN-Compliant*)

- Optional driver features (DATs, CAPs, etc) are handled by checking that the driver works as advertised. Everything advertised as supported behaves as expected and no crashes.

- Any test not covered by the two preceding items are addressed through the section titled *TWAIN Self-Certification Tests*.

- Test proper and complete driver shutdown from any state.

- Test proper abort handling from any state (ex: state 7 without finishing a memory transfer, or state 6 without starting a transfer).

- Application tests are grouped into tests requiring scanning and those that don't. Test cases are fully automated, except where UI interaction is required or placement of paper for scanning is required.

- The certification tool supports manually invoking any single test case.

- Tests are included to confirm the driver handles Applications reporting any protocol, this includes sub-2.2 Applications. This also covers v1.6 behavior, such as the use of the TWCC_BADCAP condition code, and container differences for TW_BOOL prior to v2.0.

Deliverables

For Windows, Mac and Linux
- Test application
- Installer