

TCG Storage Work Group

Storage Certification Program

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TCG Published

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1. Overview

This document describes the policies and procedures developed for the Trusted Computing Group Storage Certification Program by the Trusted Computing Group (TCG). The detailed TCG storage specification requirements will not be outlined in this document.

1.1. Definitions, Abbreviations, and Conventions

1.1.1. Definitions and Abbreviations

1.1.1.1. **SWG**

Storage Working Group

1.1.1.2. **CPM**

Certification Program Manager. The entity that is responsible for executing the Certification Program.

1.1.1.3. **CPC**

Certification Program Committee

1.1.1.4. **DUT**

Device Under Test. A Storage Device under test.

1.1.1.5. **Test Suite Platform**

HW & SW used to perform the Test Suite. Typically, this may include a Host System, Host Bus Adaptor that connects a Storage Device to a host system to execute the Test Suite.

1.1.1.6. **Storage Compliance Workshop**

An event that certifies Test Suite(s), approves Test House(s), and/or certifies Storage Device(s).

1.1.1.7. **Compliance Self-Testing**

A Storage Device vendor generates and delivers a compliance report based upon a Certified Test Suite and Test Platform.

1.1.1.8. **Candidate Test Suite**

Test Suite that claims to perform the TCG SWG Compliance Test Case Specification.

1.1.1.9. **Certified Test Suite**

Test Suite that has been certified to perform the TCG SWG Compliance Test Case Specification.

1.1.1.10. **Test Suite Log**

This report is generated by the Test Suite. It includes tests performed and device responses.

1.1.1.11. **Feature Set**

A Feature Set defines a new TCG function that is not defined in the Core Specification or previous SSCs. The Feature Set may be mandatory or optional for each SSC.

2. Product Test Requirements

TCG Storage Certification Program requires both:

- 1) Compliance Test: Certified Test Suite executed upon the Storage Device that verify TCG SWG protocol operations; and
- 2) Security Evaluation: evaluation of the Storage Device's security qualities.

Over time, the Storage Certification Program documentation may be updated to modify existing test requirements or the addition of new test requirements through the advancement of TCG technology and development of the specifications. With that in mind, it is expected that through this growth there will be versions of the Certification documentation at major releases.

For compliance testing, only the approved test suites from the approved Test Houses shall be used. The list of approved Test Houses, the test suite version and the specification version information for documents that were used in generation of these test suites may be found in the Storage Certification Program Approved Test Houses and Test Suites document. Any change in any document's version or any new Storage Work Group document which is approved by the TCG will be reflected in this document. Likewise, a listing of the approved Test Houses and their contact information may be found in this document. Any change in status of a Test House will be reflected in this document.

2.1. Grandfathered Test Requirements

Due to the dynamic evolutions and proliferation of TCG Storage products, there is a need for "Grandfathering" for the Storage Certification Program. Grandfathering allows a TCG product, if so supported, to be validated and listed using any valid program version out of the currently available set. In general, each version of the testing requirements will be effective as long as the corresponding version of the Certified Storage Product List is effective.

Program versions specify valid tools/Certified Test Suites. Approving a new program version still requires that any new tool and/or Candidate Test Suite would have to be approved separately to be included in a current version. Conversely, obsoleting a program version would also obsolete any test tool and/or Test Suite that wasn't also part of a current version.

The process for making a program version obsolete would be through the typical documentation process, including proposal developed by the Storage Working Group, review by TCG membership, and final ratification by TCG Board of Directors.

Grandfathered testing service is optionally supported by any Storage Certification Test House. This is a business-driven decision between each Trusted Computing Group Test House and the company is requesting such service. Test Houses are only required to execute the latest version.

2.2. Certified Storage Product List

The Certified Storage Product List is a database on the TCG website which holds the information about products that have passed the Compliance Test AND a Security Evaluation.

The List contains both product information and vendor contact information. It also contains information on approved Test Houses and Certified Test Suites.

The listing of approved products from TCG member companies on the Certified Storage Product List costs \$2000(US). See Appendices A, B, and C for the submission, payment, and procedure forms.

The Certified Storage Product List is posted in a public location on the TCG website.

There is a designation on the Certified Storage Product List for which version of testing requirements each product has been tested against and approved for. It is not to be assumed that if a product is listed for a specific version, that it is also certified against other newer or later versions of testing requirements. As an example, if Product A is listed as certified against Version 1.1 testing requirements, it is not implied as being certified against Version 1.0 or 1.3 testing requirements.

The Certified Storage Product List shall also include the revision of the Security Evaluation (as described in Section 4.4) below.

2.3. Specification Requirement Tests

Each requirement includes an expected behavior, measurement requirements, and clear pass/fail criteria. The specification requirement testing will be directly tied to the defined test procedures in the Storage Certification Program test specifications.

2.4. Certification Test Suite

The CPM approves available Candidate Test Suites which will perform the tests in the published TCG SWG Compliance Test Case Specification.

2.4.1. Certification Test Suite Approval Process

The Test Suite is certified in a Storage Compliance Workshop.

- 1) The Candidate Test Suite vendors will supply:
 - a) Minimum of 1 Storage Device (preferably > 1 Storage Device) that claims to implement the relevant specification;
 - b) Candidate Test Suite; and
 - c) Candidate Test Suite Platform;
- 2) TCG SWG will evaluate Test Suites for:
 - a) Completeness: all test cases are performed; and
 - b) Correctness: correctly executes each test;
- 3) Test Suite vendors must provide each device vendor that contributed to this evaluation with the test log;
- 4) Test Suite vendor shall iterate the Test Suite for correctness based upon Storage Device vendor testing, Compliance Test Case changes, or arbitration results;
- 5) TCG SWG will confirm and approve the Test Suite Log;
- 6) Test Suite vendors must submit the Test Suite Log to the CPM; and
- 7) CPM upon successful completion of the above then certifies Test Suites and the Test Suite Platforms and will list this test suite in Section 2 of the Approved Test Houses and Test Suites document.
- 8) If at any point in time, a Test Suite may become deprecated by vote of the Storage Work Group, its listing in the Approved Test Houses and Test Suites document shall be moved from Section 2, "Approved Test Suite Information" to Section 3, "Deprecated Test Suites." This action shall be taken by the CPM. If required, a new version of test suites may be submitted to the Storage Work Group for approval.

3. Product Test Methods

A Storage Device may be certified via multiple process paths with a Certified Test Suite. Process paths may include:

- Storage Compliance Workshop certification process;
- Test House certification process; or
- Compliance Self Testing process.

3.1. Storage Compliance Workshop Certification

For Storage Compliance Workshop to be held there will be a minimum of one Test Suite vendor and one Storage Device vendor.

The Storage Certification Program testing at a Storage Compliance Workshop will be hosted by TCG representatives. It is not a requirement that all independent Test Houses participate in a particular Storage Compliance Workshop.

It is recommended that Test Houses participate in the Storage Compliance Workshops for the following reasons:

- 1) Demonstrate procedures are correct (i.e. re-approval); and
- 2) Be positioned to serve as a back-up site to the Compliance Test.

Test Houses are required to supply the test equipment needed for the event.

Results gathered in the Candidate Test Suites will be supplied to the vendor with the DUT in the Storage Compliance Workshop. The approval of the Compliance Test for the device must follow the same process as described in section 4.

Testing at a Storage Compliance Workshop is open only to TCG member companies.

3.2. Test House Approval

An individual TCG member Test House may be appointed to execute Storage Certification testing. This section outlines the process for how a Test House is approved to execute the testing for the Storage Certification Program.

Test House performs the following work:

- 1) Provide testing services using a Certified Test Suite; and
- 2) Provide test results to the CPM for review, arbitration, and approval.

A Test House is legal entity. As a legal entity, they:

- 1) Protect participating device vendor and Test Suite vendor confidentiality;
- 2) Maintain Contracts, NDAs, payments, etc.; and
- 3) Are responsible for their portion of the certification process.

Test Houses which have been approved shall be made available in the Storage Certification Program Approved Test Houses and Test Suites document.

3.2.1. Requirements for Test House Approval

A Test House shall be a member in good standing of the TCG organization.

Approval as a Test House requires that the candidate lab submit a completed Test House application, acquire all necessary test equipment and Certified Test Suite(s) and then submit a set of results that demonstrate successful execution of the entire testing process. These results will be verified by the CPM for completeness and accuracy.

Any costs associated with the approval of a Test House are the responsibility of the applicant Test House.

3.2.2. Approval Decision Process

Upon receipt of completed test results, the CPM will determine whether a Test House is approved for execution of the appropriate Storage Certification Program tests. The Test House in question will receive confirmation (by email) to the supplied main contact within 7 days of request receipt. Final disposition on approval for a Test House will happen within 30 days target of request receipt.

To be considered for approval, the number of tests proven consistent shall be no less than 100%. There is an appeal process available for contention of consistency and approval decisions; see section 3.2.4.

Additionally, the Test House under question shall also execute the appropriate procedure described in the section 4 for executing Storage Certification Testing on behalf of TCG.

Upon approval, the Test House and its contact information shall be listed in the Storage Certification Program Approved Test Houses and Test Suites document.

At the time that a Test House is approved for testing, their approval will be valid for 36 months, if the Test House passes the audit process described in section 3.2.3.

3.2.3. Audit Process

The purpose of the audit process is to show the continued capability of a Test House to execute the currently approved testing.

An audit of Test House execution for the Storage Certification Program may happen approximately every 12 months. The Test House under question will be notified by the CPM when an audit is necessary.

Upon receipt of the audit notice, the Test House will be required to test a product supplied by the CPM and return the test results and the product back to the CPM when done.

An audit will be considered Passed if the results are consistent with previous test results for the product plus a complete and accurate test report.

An audit judged a "Fail" will result in a Test House not being re-approved. In that case, the Test House may not submit any new product certifications until re-approval occurs. Upon an unsuccessful audit, the CPM will move the Test House listing to Section 4, "Former Test Houses" section of the Approved Test Houses and Approved Test Suites document. If the Test House is interested in future support of Storage Certification Testing, it may work with the CPM to resolve any remaining issues identified resulting from the audit and eventually be re-approved, and their reference will be listed again in Section 1, "Approved Test Houses."

When the date of expiration of a Test House has passed and the Test House is no longer interested in having an audit performed, the CPM will move their listing in Section 1, "Approved Test Houses," of the Approved Test Houses and Test Suites document to Section 4, "Former Test Houses."

3.2.4. Appeal Process

If the Test House is willing to appeal the removal decision, it must submit a written appeal to the CPM within 30 days of receiving the fail audit notice. The CPM will submit the appeal to CPC for disposition.

The CPM will respond with its disposition of the appeal within 60 days. Appeals shall include relevant information or data to support their position.

3.2.5. Withdrawal Process

Due to an unresolved failed audit or other specified reason, a Test House's approved status may be withdrawn by TCG. In the case of withdrawal, the Test House listing in section 1 ("Approved Test Houses") of the Storage Certification Program Approved Test Houses and Test Suites document shall be removed, and this information will be inserted in section 4 ("Former Test Houses") of this same document. Reinstatement would require that the CPM accept reapplication and that the lab successfully complete the approval process described above.

3.2.6. Listing of Approved Test House(s)

Upon approval of a Test House to execute Storage Certification Program testing, the Test House will be listed in the Storage Certification Program Approved Test Houses and Test Suites document. This will include contact information. Pricing for the service is a business matter for the Test House.

To maintain its appointed status a Test House is required to incorporate into their test process any updates or errata that are made within 30 days of Test Suite certification approval.

3.3. Compliance Self-Testing

Any company wishing to perform Compliance Self-Testing needs to conform to a similar set of requirements to those of an Approved Test House. The most notable exception being auditing.

Instead being asked to audit a product to verify test capability, one of the company's listed products may be audited by the CPM at an appointed Test House to verify test results.

4. Product Certification Process

This section outlines the process for acceptance or rejection of product submissions to be listed on the Certified Storage Product List.

4.1. Request for Certification

Vendors who are interested in having their products certified shall only use a certified test source.

In all cases, a unique Test ID shall be assigned to a product prior to testing being started. In the case that testing is done by an approved Test House, the Test House shall request a unique Test ID be assigned to the DUT in question. Included in the request will be specific information related to the DUT to ensure proper tracking of the correct product through testing.

The unique Test ID assists in the anonymity of vendors and specific products when results are being reviewed and discussed. The unique Test ID will be assigned by the CPM. A new TID is not required for hardware and/or software changes made to resolve issues found during compliance testing.

Test results and information will be treated confidentially by the CPM. Information in the standard submission form is handled as non-confidential. Only at the time that a product has been approved for Certified Storage Product List will product details actually be visible.

4.2. Submission Acceptance Process

All product submissions shall use current and approved result templates for the version being submitted against. Upon receipt of a DUT test results, the CPM will determine whether the submission is accepted. This determination will be based on results completeness, clarity, and other factors. Upon submission receipt, the vendor with the product in question, and the Test House when applicable, will receive confirmation (by email) to the supplied main contact within 7 days of request receipt. Final disposition on certification for a product will happen within 30 days of a complete request receipt.

To be considered for certification, the number of tests passed shall be no less than 100%. There is an appeal process and a waiver process available for contention of results and certification decisions (see sections 4.2.1 and 4.2.2).

Any submission that has been approved for certification will be added to the Certified Storage Product List by the CPM. The results and any final resolution comments will be delivered to the vendor (of the product submitted) by the CPM.

A product may also be removed from the Certified Storage Product List per request by the manufacturer of that product.

As the Storage Certification Program evolves, there will be differentiation among products on the Certified Storage Product List outlining which scope of testing (by version or other denotation) for what it has been approved.

If a submission is rejected, the results report and final resolution comments will be delivered to the vendor by the CPM. The vendor has the opportunity to appeal the resolution from the CPM within 30 days after the results report is issued. Upon final determination of submission rejection, including waiver considerations, the DUT will be returned to the vendor.

In the case that testing was completed at a Test House, the lab will also receive the appropriate confirmations and status of certification. In addition, the Test House will keep all results for tested products on record for at least 12 months.

4.2.1. Appeal Process

If the product vendor is willing to appeal the rejection, it must submit a written appeal to the CPM within 30 days of receiving the rejection notice. The CPM will submit the appeal to CPC for disposition.

The CPM has 60 days to respond to the appeal. Appeals shall include relevant information or data to support their position.

4.2.2. Waiver Request

Waiver requests are submitted by completing the General Waiver Request Form in Appendix D of this document, and submitting it to the CPM. Waivers are only used in the case of compliance testing, not Common Criteria evaluation.

All waiver requests will be submitted to the CPM, who will anonymize the waiver submissions. Waivers will be reviewed by the CPM in concert with the Storage Work Group for validity and judgment on the effect of the product's potential incompatibilities with other TCG products and specifications. Waivers will be voted upon for approval by the Storage Work Group.

All new waiver requests will be reviewed by and given final approval by the Compliance Program Committee. Approved Waivers will be added to the "Storage Certification Program Waiver List." The final decision on any waiver will be communicated to the applicant by the CPM.

There are specific tests for which a waiver may already be in place. Please see the separate "Storage Certification Program Waiver List" document for the current list of known waivers. For any questions, please contact the Certification Program Manager at certification@trustedcomputing.org for details.

Any test failures that are not accompanied by a waiver request are grounds for finalizing submission rejection.

4.2.3. Product Family Qualification

A Product Family is denoted as a set devices of products which have no TCG specific characteristic differences. If one of the products within the family is approved with no TCG specific characteristic differences existing within the family of products, then the entire family is considered to be passing. An example would be a family of hard disk drive products which only differ in their storage capacity but whose TCG characteristics and capabilities match across the different device part numbers.

All products listed as certified on the TCG website (regardless of product family) need to have certification with respect to security evaluation.

4.2.4. Product Family Listing

The following are the requirements of a Product Family Listing:

- 1) At least one family member passes Storage Certification Testing;
 - 2) All products listed in the product family require to have certification of security evaluation;
 - 3) No TCG-impacting material differences can exist between any of the family of products;
 - 4) Part number definition: The Product Family part number scheme definition shall be provided and defined in 40 text characters or less;
 - 5) Model number definition: The Product Family model number scheme definition shall be provided and defined in 40 text characters or less;
 - 6) Firmware revision definition: The Product Family firmware revision scheme definition shall be provided and defined in 40 text characters or less; and
 - 7) The vendor shall not create any products that require any "Re-testing" (as defined in a Re-Testing section) that would fall under the Product Family Listing definition.
-

4.2.5. Qualification by Similarity

A submission for inclusion on the Certified Storage Product List may include reference to a previously certified product, and offer its results in lieu of some or all of the results of the required tests. Such a submission shall be made using the standard submission form and shall include the written permission of the original submitting company (if different). The submission shall state if it is claimed there are no material digital or electrical changes, or if there are some then what they are. Where there are no material TCG changes and no change that will affect the security evaluation, as covered under the re-testing requirements section below, no further testing is required. If approved, this additional product, or set of products, would also be added on the Certified Storage Product List.

4.3. Requirements for Compliance Re-test

Any product that has non-TCG impacting material changes and has changed the vendor or model #, or firmware revision, shall perform one of the following actions: If the changed product meets all the requirements of an existing Product Family Listing, no further action is required, if not a Re-Testing form shall be submitted with all the updated information, indicating no material TCG changes have been made.

Any TCG impacting material changes to a product already on or about to be listed on the Certified Storage Product List shall submit a completed standard Re-testing form, with a MINIMUM of the following test data from a certified testing source:

Change Type:	Re-Test form and Action required
No material TCG change – different vendor or model #, bezel color, capacity.	No re-testing required.
Additional source of connector, PCB or support components (AC caps, etc.)	No re-testing required.
Connector	No re-testing required.
PCB TCG layout, stack up, geometry or material type	No re-testing required.
Interface silicon – No TCG interface impact	No re-testing required.
Interface silicon – TCG interface impact	Run Certified Test Suite
Interface non-silicon parts (AC caps, etc)	No re-testing required.
Firmware – TCG interface impact	Run Certified Test Suite
Firmware – New or changed Feature Sets	Run Certified Test Suite
Firmware – Removal of optional TCG features	Run Certified Test Suite
Firmware – Non TCG impacting	No re-testing required
External material changes	No re-testing required
Security Evaluation impacting changes	Re-submit for Security Evaluation then supply evaluation certificate

4.4. Security Evaluation Process

The SWG developed TCG SSCs to provide data at rest protection that protect user data from compromise due to the loss, theft, repurposing or end of life of a Storage Device.

- TCG Storage Certification shall require Security Evaluation;
- TCG Storage Certification shall leverage industry available Security Evaluation requirements (test assertions) and infrastructure (test labs); and
- Participating device vendors shall report their Security Evaluation results to the CPM.

As part of developing a security certification program, the SWG analyzed various mechanisms and has reached consensus with using Common Criteria, an internationally recognized evaluation paradigm.

The Trusted Computing Group requires security evaluation of storage devices as an integral portion of certification. TCG Certified Storage Devices shall meet the requirements of the most recently recognized versions of the Full Disk Encryption (FDE) Encryption Engine (EE) collaborative Protection Profile (cPP). The FDE EE cPP, defined by the international Technical Committee (ITC), outlines threats and requirements and requirements associated with Self-Encrypted Drive (SED), and is used for the SWG Security Evaluation.

As part of the Storage Certification process, each participating device vendor will be required to have their product successfully evaluated against the most recent version of cPP using a Common Criteria licensed laboratory. The detailed process is specified in the Common Criteria ISO 15408 standard. The following FDE EE cPP needs to be followed:

Common Criteria Portal FDE EE cPP:

<https://www.commoncriteriaportal.org/communities/fde.cfm>

A list of Common Criteria licensed laboratories may be found here:

<https://www.commoncriteriaportal.org/labs/>

4.4.1. Device Security Evaluation

4.4.1.1. Inputs

- Participating device vendor submits devices to a Common Criteria licensed laboratory; and
- Participating device vendor completes and submits the URL of Common Criteria Certification Report; and
- PDF of Common Criteria certificate.

4.4.1.2. Tasks

Products may be posted with a status of “In Progress” if preliminary approval has been granted by the Common Criteria testing organization, and the product has successfully completed Compliance Test and the application process.



Storage Certification Program Application Form

Vendor Information	
Company Name:	Date of Application:
Street Address	Vendor City, State, Zip, Country:
Contact, Title:	Phone Number:
Contact Email address:	
Product Information	
Product Name:	
PSID: 1. Printed on device [] or, 2. Specify:	
Product Model Number:	Product and Firmware Revisions:

Preferred appearance on the Certified Storage Product list:

For product/s qualifying for inclusion on the **Certified Storage Product list**, please indicate the preferred product listing below.

Company Name (Include corp. URL):	Product Name:
Specification Built Against (OPAL SSC 1.00, 2.00, 2.01):	SIIS Version:

For Administrative Use Only:

	Application		Payment
	PDF of Common Criteria Certification Report		URL to Common Criteria Certification Report
	PDF of complete Compliance Test Suite test log		
Security Evaluation Status:		Compliance Status:	



**Storage Certification
Program
Payment Form**

Contact Information of Ordering Party
Name:
Phone:
Fax:
Email:
Company Name:
Address 1:
Address 2:
City / State – Province / Zip:
Country:

Fees	Fee for certification <input type="checkbox"/> \$2000 USD Application Fee
-------------	--

Total

Form of payment	<input type="checkbox"/> Check <input type="checkbox"/> Wire Transfer
<input type="checkbox"/> Invoice required	

Please submit completed forms via email, fax or mail to:

Trusted Computing Group Administration,
 3855 SW 153rd Drive
 Beaverton, OR 97006
 Phone: (503) 619-0562
 Fax: (503) 644-6708
 Email: admin@trustedcomputinggroup.org



Process Document: Adding a Product to the TCG Certified Storage Product List

For storage products to be added to the TCG Certified Storage Product List, each member must provide proof of successful Security Evaluation, proof of successful Compliance Test, and completion of the application process listed below. This process is available to members of TCG only. For those who are interested in having products certified should contact TCG Administration through certification@trustedcomputinggroup.org

Security Evaluation

Security Evaluation must be coordinated with a recognized Common Criteria licensed laboratory and is subject to the fees implemented by those labs. Please see section 4.4 for further information.

NOTE: Products may be posted with a status of "In Progress" if preliminary approval has been granted by the Common Criteria licensed laboratory, and the product has successfully completed the Compliance Test and the application process is done.

Compliance Test

Compliance Test must be performed according to the process defined in this document.

- a) Decide which test specification (Opal SSC Compliance Test Case, Feature Set Compliance Test Case, etc.);
- b) Perform Compliance Test by:
 - 1) Register and attend the Storage Compliance Workshop at TCG Storage Plugfest;
 - 2) Submit device to an approved Test House; or
 - 3) Acquire a Certified Test Suite and perform the test in-house; and
- c) Generate a PDF version of the test summary and test report as proof of successful completion. For any Waiver Requests, note the test case(s) and state the reason why a waiver should be granted.

Application for Certification

TCG has created an application process to provide the required proofs of successful Security Evaluation and Compliance Test. Application fees are used to balance the TCG investment in administrative cost. Submit the following information to the CPM at certification@trustedcomputinggroup.org.

- a) Complete the Storage Certification Application Form to verify company and product information. This information will be used for auditing purposes and to identify your product on the TCG Certified Storage Product List;
 - b) Attach proof of successful Security Evaluation with the following:
 - URL of Common Criteria Certification Report on the Common Criteria website; and
 - PDF of Common Criteria Certificate;
 - c) Attach proof of successful Compliance Test results (PDF of test execution log and results) and any Waiver Requests; and
 - d) Attach Payment
 - TCG accepts company check or international bank transfers; and
-

- To request an invoice, please use the Payment Form.

Additional Information

TCG has made the below documents available to members in support of the procedures outlined above. Please feel free to contact certification@trustedcomputinggroup.org with any questions.

- Storage Certification Program document (add website link)
- Storage Compliance Test Cases documents (add website link)
- TCG Certified Storage Product List (add website link)

Applications can be accepted by email, fax or regular mail. CPM will confirm receipt of your application and inform you when certification has been granted. Products will be posted on the TCG Certified Storage Product List within five business days of certification being granted.



Storage Certification Program General Waiver Request Form

Waiver Information
Test Case, Step, or Condition Waiver Requested:
Specification Reference(s):
Reason for Waiver:
How to detect waiver condition:
Additional Comments:

For Administrative Use Only:

Disposition:
Waiver ID: