

Self-Test Requirements

Natural language input for SFRs

In order to detect some number of failures of underlying security mechanisms used by the TSF, the TSF will perform self-tests. The extent of this self testing is left to the product developer, but a more comprehensive set of self tests should result in a more trustworthy platform on which to develop enterprise architecture.

Proposed SFRs

FPT_TST_EXT.1 TSF testing

Hierarchical to: No other components.

Dependencies: No dependencies.

FPT_TST_EXT.1.1 The TSF shall run a suite of the following self tests during initial start-up (on power on) to demonstrate the correct operation of the TSF: [assignment: list of self tests run by the TSF during initial start-up].

Application Note: In future versions of this cPP the suite of self tests will be required to contain at least mechanisms for measured boot including self tests of the components which perform the measurement.

Assurance Activities:

The evaluator shall examine the TSS to ensure that it details the self tests that are run by the TSF on start-up; this description should include an outline of what the tests are actually doing (e.g., rather than saying "memory is tested", a description similar to "memory is tested by writing a value to each memory location and reading it back to ensure it is identical to what was written" shall be used). The evaluator shall ensure that the TSS makes an argument that the tests are sufficient to demonstrate that the TSF is operating correctly.

The evaluator shall also ensure that the operational guidance describes the possible errors that may result from such tests, and actions the administrator should take in response; these possible errors shall correspond to those described in the TSS.