What is a Test Assertion?

- According to HbbTV life cycle, for every published HbbTV Spec, there is a description of what will be tested by the tests in the test suite.

- This description is called a Test Assertion.
The Test Suite is based on Test Assertions

The Test Assertion is **not** the test itself

- A test assertion is a pre-requisite to the creation of a test
- Anyone can access the HbbTV Test Suite through an HbbTV Registered Test Center. A list of these can be found on the website.
- HbbTV members who have the necessary expertise and equipment may also license the test suite for use in their own facility.
What are the Test Assertion Spec and TAR?

• The Test Assertion Specification is a document with detailed information of what is a test assertion and including a link to the Test Assertion Repository (TAR), along with useful guidance information for users of the TAR.

• The TAR is a list of test descriptions*

* Published TAR only includes test descriptions from HbbTV Core specifications when there is a valid test in the official Test Suite. The TAR does not include independent specifications (Op Apps, ADB, Targeted Advertising, …)
The TAR is a Living Resource

• The Test Assertion Repository list is updated daily:
  – Test Assertions may be added or removed when the HbbTV Test Suite is updated (which is notionally 3 times per year)
  – Additionally Test Assertions may also be removed from the Repository list, for example, if the HbbTV Association discovers a fault in one of their tests.
  • If that occurs, it is removed from the test suite, and hence removed from the TAR list pending a fix to the test.
Why has HbbTV published the TAR?

• HbbTV already publishes a long list of test assertions (https://www.hbbtv.org/resource-library/#testing-information-and-support)

• TAR and the long list of test assertions differ on 3 important points:
  1. The assertions captured in the TAR at all time will be all and only the assertions for which an approved test exist in the test suite (in its current version)
  2. The TAR is the list of assertions which will be referred to by the HbbTV new Test Assertions Specification (this specification is now published by HbbTV, potentially as an ETSI TS one day) (https://www.hbbtv.org/resource-library/#specifications)
  3. The TAR includes only Core Spec test assertions (the TAR does not include Independent specifications (OpApps, ADB, Targeted Advertising,…))

• Organizations willing to refer to HbbTV Test Assertions for the purpose of conformance should be aware of these differences
Where to find out more

- The Test Assertion Spec is available in the Resource Library of the HbbTV web page.

- The link to the Test Assertion Repository is available at the end of the TAR spec.