SSC-WG4 Certification Process

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The requirements, protocols, specifications, and interfaces are defined by SSC-WinnF Working Groups 1, 2, and 3. The specifications are derived from FCC, NTIA, and DoD requirements.

According to Requirements and specifications defined by other working groups, Working Group 4 develops the test cases. The test case document would be published WG4

- Functional Test cases
- Interoperability test cases
- Field/Performance test cases
- Tests should distinguish between results which must be the same among conforming systems and results which need not be the same among conforming systems.
- Tests should be developed for all systems which intervene in the signaling from the SAS to a CBSD emitter.
- The test cases developed in WinnF addresses the requirements specifically determined by FCC and/or WinnF WG1, WG2, and WG3. However, a technology-specific test and/or certification, as defined by another standard or standard body, might be a pre-requisite of this certification process.

The functional test cases, are converted to test scripts, to facilitate the development of test apparatus (Emulator), which has to be validated through a process defined by FCC/WinnF.
The testing might require simulated traffic generation capability and measurement equipment.

A lab is certified by FCC/DoD/WinnF to perform the certification of SSC components.

The lab publishes the test report.

Vendors testing could be either considered as:
  - a pre-requisite for certification process,
  - By discretion of the certification management entity, they could be partially or fully considered as part of certification plan.

The Certification is governed by a certification body designated by FCC, DoD, and WinnF.
Test Classification

Review all requirements and assign appropriate classification. Classification used as WG4 guidance for further Test and Certificate artifacts, test flow and deliverables

1. **Certification** – Testing takes place in an independent, secure and supervised test center or by “Certification partners” where selected requirements are tested and officially approved as having met a standard.

2. **Acceptance** - Testing conducted to determine if the requirements or specifications (e.g. WG2/WG3 specifications) are met. This testing can be done in lab IOT testing similar to how telecommunications equipment is currently tested. This would be focused on black-box system level testing. (Functional and Performance)

3. **Evidence** - Material that is presented that furnishes proof of compliance or operation that will satisfy outside regulators that all necessary tests have been executed and passed