USGv6 Test Selection Tables

IPv6 Stateless Address Autoconfiguration (SLAAC)

I2-Interoperability: SLAAC-R1v1.5

Applicable Profile: NIST SP 500-267B Revision 1 USGv6 Profile – November 2020.

Test Specification Id:

- [Core-Interoperability] IPv6 Ready Core Protocols Interoperability Test Specification, [editor: IPv6 Ready Logo].

Interoperability Partner Requirements:

- Any host or router claiming compliance with the USGv6 profile MUST demonstrate evidence of interoperability with three or more independent implementations of IPv6. The three implementations must include at least one Host and at least one Router.
- Target nodes must not change once testing has begun.

Core-Interoperability
If your Device Under Test (DUT) Type is **Host:**

- DUT = TAR-Host1 for all tests.
- TAR-Host2 = Independent Implementation Device B
- TAR-Router1 = Independent Implementation Device C
- Third Interoperability Partner is satisfied by executing the test specification again using the following:
- TAR-Router1 = Independent Implementation Device D

If your Device Under Test (DUT) Type is **Router:**

- DUT = TAR-Router1 for all tests.
- TAR-Host1 = Independent Implementation Device B
- TAR-Router2 = Independent Implementation Device C
- Third Interoperability Partner is satisfied by executing the test specification again using the following:
    - TAR-Host1 = Independent Implementation Device D

SLAAC Applicable Test Check List			
Reference	**Test Specification Id**	**Test Number**	**Device Type**
RFC 7217	Core-Interoperability	IP6Interop.1.2 Address Autoconfiguration and Duplicate Address Detection (B)(D)	Host
RFC 4862	Core-Interoperability	IP6Interop.1.3 Processing Router Advertisements - Prefix Discovery (A)(B)(C)	Host/Router
RFC 8106	Core-Interoperability	IP6Interop.1.9 Processing Router Advertisements – DNS (A)(B)(C)(D)	Host/Router

References:

- [RFC 4862] Thomson, S., T. Narten, T. Jinmei, IPv6 Stateless Address Autoconfiguration, RFC 4862, September 2007.
- [RFC 7217] F. Gont, A Method for Generating Semantically Opaque Interface Identifiers with IPv6 Stateless Address Autoconfiguration (SLAAC), RFC 7217, April 2014.
- [RFC 8106] - J.Jeong, S. Park, L.Beloeil, and S.Mandadapalli, IPv6 Router Advertisement Options for DNS Configuration, RFC 8106, March 2017.

The objective of this test selection sheet is to provide a reference for available test specifications that identifies tests applicable to the USGv6 Profile.