

USGv6 Test Selection Tables

IPv6 Stateless Address Autoconfiguration (SLAAC)

F2-Conformance: SLAAC-R1v1.3

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

Test Specification Id:

- [[Core-Conf](#)] IPv6 Ready Core Protocols Test Specification, [editor: [IPv6 Ready Logo](#)].

Stateless Address Autoconfiguration Test Check List			
Reference	Test Specification Id	Test Number	Device Type
RFC 8106	Core-Conformance	v6LC.2.2.24 Router Advertisement DNS (A)(B) Note: Advertising RDNSS and DNSSL options with a default lifetime $\geq 3 * \text{MaxRtrAdvInterval}$ is not required	Router
RFC 8106	Core-Conformance	v6LC.2.2.25 Processing Router Advertisement DNS (A)(B)(C)(D)(E)(F)	Host
RFC 4862	Core-Conformance	v6LC.3.2.1 Global Address Autoconfiguration and DAD (A)(B)(C)	Host/Router
RFC 4862	Core-Conformance	v6LC.3.2.2 Address Lifetime Expiry	Host
RFC 4862	Core-Conformance	v6LC.3.2.3 Multiple Prefixes and Network Renumbering	Host
RFC 4862	Core-Conformance	v6LC.3.2.4 Prefix-Information Option Processing (A)(B)(C)(D)(E)(F)(G)(H)(I)(J)	Host
RFC 4862	Core-Conformance	v6LC.3.2.5 Prefix-Information Option Processing, Lifetime (A)(B)(C)(D)	Host
RFC 7217	Core-Conformance	v6LC.3.2.6 Stable addresses (A)(B)	Host
RFC 7217	Core-Conformance	v6LC.3.2.7 Resolving DAD Conflicts (A)(B)	Host

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.Beloil, and S.Mandapalli, 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.