

USGv6 Test Selection Tables*

IPv6 Stateless Address Autoconfiguration (SLAAC)

F2-Conformance: SLAAC-v1.2

Applicable Profile: NIST SP 500-267 A profile for IPv6 in the U.S. Government - Version 1.0, July 2008.

Configuration Option: SLAAC

Test Specification Id:

- [[Core-Conformance](#)] IPv6 Ready Test Specification Core Protocols, Version 4.0.8, September 2018, [editor: [IPv6 Ready Logo](#)].

Reference:

- [RFC 4861] Narten, T., Nordmark, E., and W. Simpson, H. Soliman, Neighbor Discovery for IP Version 6 (IPv6), RFC 4861, September 2007.
- [RFC 4862] Thomson, S., T. Narten, T. Jinmei, IPv6 Stateless Address Autoconfiguration, RFC 4862, September 2007.

SLAAC Applicable Test Check List				
Reference	Test Specification Id	Test Number	Device Type	Passed
RFC 4862	Core-Conformance	v6LC.3.1.1 Address Autoconfiguration and Duplicate Address Detection	Host/Router	
RFC 4862	Core-Conformance	v6LC.3.1.2 Receiving DAD Neighbor Solicitations and Advertisements (A)(B)(C)(D) **Phase-1 Steps Only	Host/Router	
RFC 4862	Core-Conformance	v6LC.3.1.3 Validation of DAD Neighbor Solicitations (A)(B)(C)(D)(E)(F)(G)(H)(I)(J) **Phase-1 Steps Only	Host/Router	
RFC 4862	Core-Conformance	v6LC.3.1.4 Validation of DAD Neighbor Advertisements (A)(B)(C)(D)(E)(F)(G)(H)(I) **Phase-1 Steps Only	Host/Router	
RFC 4862	Core-Conformance	v6LC.3.1.5 Receiving Neighbor Solicitations for Address Resolution (A)(B)	Host/Router	

NOTE: The following tests are considered a **C(M)** for the SLAAC Requirements as per the USGv6-v1 Profile.

RFC 4862 Section 5.5 Creation of Global Addresses				
Reference	Test Specification Id	Test Number	Device Type	Passed
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	

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