

USGv6 Test Selection Tables*

Addressing Architecture Requirements

I7-Interoperability: : Addr Arch Requirements v1.2I

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

Configuration Option: None

Test Specification Id:

- [[AddrInterop](#)] Address Architecture Interoperability Test Specification, Version 1.4, January, 2020, [editor: [UNH InterOperability Laboratory](#)].

Reference:

- [RFC 4193] R. Hinden, B. Haberman. "Unique Local IPv6 Unicast Addresses." RFC 4193, October 2005
- [RFC 4291] R. Hinden, S. Deering, "IP Version 6 Addressing Architecture," RFC 4291, February 2006
- [RFC 4007] S. Deering, B. Haberman, T. Jinmei, E. Nordmark, B. Zill, "IPv6 Scoped Address Architecture," RFC 4007, March 2005
- [RFC 3879] C. Huitema, B. Carpenter, "Deprecating Site Local Addresses." RFC 3879, September 2004
- [RFC 3484] R. Draves, "Default Address Selection for Internet Protocol version 6 IPV6)," RFC 3484, February 2003
- [RFC 2526] D. Johnson, S. Deering, "Reserved IPv6 Subnet Anycast Addresses," RFC 2526, March 1999

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.
- Do not change Target nodes once testing has begun.

AddrInterop

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

- DUT = TAR-Node1 for all tests.
- TAR-Node1 = Independent Implementation Device B
- TAR-Node2 = Independent Implementation Device C
- TAR-Node3 = Independent Implementation Device D

Addressing Architecture Test Check List

Reference	Test Specification Id	Test Number	Device Type
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RFC 4007, 4291	AddrInterop	AddrInterop.1.1: IPv6 Scoped Address (A)(B)(C)(D)	Host/Router
RFC 3484	AddrInterop	AddrInterop.1.2: Default Source Address Selection (A)(C)	Host/Router
RFC 3484	AddrInterop	AddrInterop.1.2: Default Source Address Selection (B)	Host
RFC 3484	AddrInterop	AddrInterop.1.3: Default Destination Address Selection (A)	Host/Router
RFC 3484	AddrInterop	AddrInterop.1.3: Default Destination Address Selection (B)	Host
RFC 3879	AddrInterop	Test AddrInterop.1.5: Deprecating Site Local Addresses (A)(B)	Host/Router
RFC 3879	AddrInterop	Test AddrInterop.2.2: Routing Deprecated Site Local Addresses	Router

NOTE: The following tests are considered a **O** for the Address Architecture Requirements as per the USGv6-V1 Profile.

Reference	Test Specification Id	Test Number	Device Type
RFC 4193	AddrInterop	AddrInterop.1.4: IPv6 Scoped Address (A)(B)(C)(D)	Host/Router
RFC 4193	AddrInterop	Test AddrInterop.2.2: Routing Deprecated Site Local Addresses	Router

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