

USGv6 Test Selection Tables*

OSPF-v3

F14-Interoperability: OSPF-v3-v1.2

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

Configuration Option: OSPF-v3

Test Specification Id:

- [[OSPFv3-Interoperability](#)] IPv6 OSPFv3 Interoperability Test Specification, version 1.3, November, 2010, [editor: [CHT-TL](#) & [NIST](#)].

Reference:

- [RFC 2328] J. Moy, OSPF Version 2, RFC 2328, April 1998
- [RFC 2740] R. Coltun, D. Ferguson, J. Moy, A. Lindem, Ed., OSPF for IPv6, RFC 2740, December 1999
- [RFC 4301] S. Kent, K. Seo, Security Architecture for the Internet Protocol, RFC 4301, December 2005
- [RFC 4552] M. Gupta, N. Melam, Authentication/Confidentiality for OSPFv3, RFC 4552, June 2006

Device Type Definitions:

- **ROUTER:** A device capable of forwarding packets.
- **HOST:** A device which is not a ROUTER.

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

OSPFv3-Interoperability

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

- DUT = TR1 for all tests.
- TR2 = Independent Implementation Device B
- TR3 = Independent Implementation Device C
- H1, H2 and H3 = Any devices which can execute ping6 function

OSPF-v3 Test Check List - REQUIRED				
Reference	Test Specification Id	Test Number	Device Type	Passed
RFC 2328, RFC 2740	OSPFv3-Interoperability	OSPFv3_IOT_1_1	Router	
RFC 2328, RFC 2740	OSPFv3-Interoperability	OSPFv3_IOT_1_2	Router	
RFC 2328, RFC 2740	OSPFv3-Interoperability	OSPFv3_IOT_1_3	Router	

RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_3_1	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_3_2	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_3_3	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_4_1	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_4_2	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_4_3	Router	
RFC 2328, RFC 2740	OSPFv3 Interoperability	OSPFv3_IOT_4_4	Router	
RFC 4552, RFC 4301	OSPFv3 Interoperability	OSPFv3_IOT_5_1 (A) (B)	Router	
RFC 4552, RFC 4301	OSPFv3 Interoperability	OSPFv3_IOT_5_2	Router	

OSPF-v3 Test Check List - SHOULD				
Reference	Test Specification Id	Test Number	Device Type	Passed
RFC 4552, RFC 4301	OSPFv3 Interoperability	OSPFv3_IOT_5_1 (C)	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.