

1 The Document Requiring Conformity: USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)

2 Product Identifier: iOS

3 Supplier's Name, Address and SDOC Contact Details
 Apple Inc., One Apple Park Way, Cupertino, CA 95014, (408) 996-1010

4 Product as Tested/Declared: *Product Identifier, version/revision information, details of configuration tested.*
 12.0

5 Product Family (other products using same IPv6 stack(s) to which these results are declared to apply). **Check Product Family attestation below.**

6 USGv6 Capability summary. (For each distinct IPv6 stack in the product provide a summary of its USGv6 capabilities below and include a detailed test result summary). *e.g. example-prod-id/stack-1: USGv6-v1-Host: IPv6-Base+Addr-Arch+IPsec-v3+IKEv2+SLAC+Link=Ethernet.*
 USGv6-v1-Host: IPv6-Base+Addr-Arch+SLAAC+Link = Ethernet


7 Self Contained or Composite SDOC? (Must indicate one).
YES All of the declared USGv6 capabilities of this product are addressed by original test results reported in this SDOC. **NO** Some or all of the USGv6 capabilities of this product are provided by the use and/or integration of unmodified components that have their own unique USGv6 SDOCs. All of the relevant referenced SDOCs are identified in section 8 and attached. This product's page 2 will indicate which capabilities are provided by specific referenced components (product-id/stack-id).

8 Additional Declarations / Attachments: (List supplier & product-id/stack-id for referenced and attached test results in the case of composite products).

	Component Supplier	Product ID:	Stack ID:	Notes:
[1]				
[2]				
[3]				
[4]				

9 Supplementary Attestations (Answer all).

YES	This product is fully functional in dual stack environments. That is, no claimed capabilities are invalidated if this product is operated in a dual stack (6 and 4) network environment.	YES	This product is fully functional in IPv6 only environments. That is, no claimed capabilities are invalidated if this product is deployed in a network environment that does not support Ipv4.
YES	This SDOC contains a capabilities test report for each unique IPv6 stack in the product. If not, the stacks/ports not covered are documented, and how their Ipv6 capabilities differ from those reported are explained.	YES	All of the products listed in the product family in section 5 are implemented such that their USGv6 capabilities are identical in form and function across the entire product family. The specific conformance and interoperability test results for the USGv6 capabilities of an identified member of this product family are provided in this SDOC. The SDOC attests that these tested USGv6 capabilities are identical and unmodified for all the products cited above.

10 Signature:  Date: September 21, 2018
 Print Name / Title: PRABHAKAR LAKHERA / Senior Software Engg.

See instructions for fields 1-12 on Page 4.

Product Id:		IOS				Stack Id:			12.0		
Spec / Reference	Section	USGv6-v1 Profile Requirements	Context / Configuration Option		Supported Capabilities			USGv6 Testing Program Results			
			Host	Router	NPD	Test Suite Conformance/NPD	Test Lab / Result ID, Note #, or Component Ref	Test Suite Interoperability	Test Lab / Result ID, Note #, or Component Ref		
SP500-267	6.1	IPv6 Basic Requirements									
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base	P			Basic v1.* C	UNH-IOL/28398	Basic V1.* I	UNH-IOL/28401	
		support of PMTU Discovery Protocol requirements	PMTU	P			Basic v1.* C	UNH-IOL/28398	Basic V1.* I	UNH-IOL/28401	
		support of stateless address auto-configuration	SLAAC	P			SLAAC-V1.* C	UNH-IOL/28398	SLAAC-V1.* I	UNH-IOL/28401	
		support of Creation of Global Addresses	SLAAC - c(M)	P			SLAAC-V1.* C	UNH-IOL/28398	SLAAC-V1.* I	UNH-IOL/28401	
		support of SLAAC privacy extensions.	PrivAddr				Self Test		Self Test		
		support of stateful (DHCP) address auto-	DHCP-Client				DHCP Client v1.* C		DHCP Client v1.* I		
		support of automated router prefix delegation	DHCP-Prefix				Self Test		Self Test		
		support of neighbor discovery security extensions	SEND				Self Test		Self Test		
SP500-267	6.6	Addressing Requirements									
		support of addressing architecture reqts	Addr-Arch	P			Addr Arch v1.* C	UNH-IOL/28400	Addr Arch v1.* I	UNH-IOL/28403	
		support of cryptographically generated addresses	CGA				Self Test		Self Test		
SP500-267	6.7	IP Security Requirements									
		support of the IP security architecture	IPsecv3				IPsecv3 v1.* C		IPsecv3 v1.* I		
		support for automated key management	IKEv2				IKEv2 v1.* C		IKEv2 v2.* I		
		support for encapsulating security payloads in IP	ESP				ESPv3 v1.* C		ESP v1.* I		
SP500-267	6.11	Application Requirements									
		support of DNS client/resolver functions	DNS-Client				Self Test		Self Test		
		support of Socket application program interfaces	SOCK				Self Test		Self Test		
		support of IPv6 uniform resource identifiers	URI				Self Test		Self Test		
		support of a DNS server application	DNS-Server				Self Test		Self Test		
		support of a DHCP server application	DHCP-Server				Self Test		DHCP Serv v1.* I		
SR500-267	6.2	Routing Protocol Requirements									
		support of the intra-domain (interior) routing protocols	IGW				Self Test		OSPFv3 v1.* I		
		support for inter-domain (exterior) routing protocols	EGW				Self Test		BGP v1.* I		
SP500-267	6.4	Transition Mechanism Requirements									
		support of interoperation with IPv4-only systems	IPv4				Self Test		Self Test		
		support of tunneling IPv6 over IPv4 MPLS services	6PE				Self Test		Self Test		
SP500-267	6.8	Network Management Requirements									
		support of network management services	SNMP				Self Test		Self Test		
SP500-267	6.9	Multicast Requirements									
		support of basic multicast	Mcast				Self Test		Self Test		
		full support of multicast communications	SSM				Self Test		Self Test		
SP500-267	6.10	Mobility Requirements									
		support of mobile IP capability.	MIP				Self Test		Self Test		
		support of mobile network capabilities	NEMO				Self Test		Self Test		
SP500-267	6.3	Quality of Service Requirements									
		support of Differentiated Services capabilities	DS				Self Test		Self Test		
SP500-267	6.12	Network Protection Device Requirements									
		support of common NPD reqts	NPD				N1 N2 N3 N4 v1.3				
		support of basic firewall capabilities	FW				N1 FW v1.3				
		support of application firewall capabilities	APFW				Self Test				
		support of intrusion detection capabilities	IDS				N3 IDS v1.3				
		support of intrusion protection capabilities	IPS				N4 IPS v1.3				
SP500-267	6.5	Link Specific Technologies									
		support of robust packet compression services	ROHC				Self Test		Self Test		
		support of link technology [O:1] Link=Ethernet	Link=Ethernet	P			Self Test	Self Declaration	Self Test	Self Declaration	
		(repeat as needed) support of link technology Link=	Link=								

12 < Check HERE if this stack's DOC includes additional information about tested capabilities and options on an attached page 3 of notes.

Level	Level of support for USGv6-v1 Requirements for capability.	Color	Indication of USGv6-v1 Recommended Level of Support for device type / stack role.
	Blank - SDOC makes no declaration for this capability.		Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile.
P	Passed required tests of USGv6-V1 requirements for these capabilities.		Indicates capability that is unusal for a given device type / stack role. Do not select without careful analysis.
N	See notes page for details on the level of support of USGv6-v1 reequirements for this capability.		Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.
X	USGv6 capability not supported in product.		

Test Suite - Specific USGv6 Test suite used for test. See: <http://www.nist.gov/usgv6/test-specifications.html> Note # - reference to a detailed note about this capability or result on attached page.
 Test Lab / Result ID - Abbreviation of accredited laboratory and its local identifier for this test result. Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.

Field 13	Product Id:		IOS			Stack Id:			IOS 12.0		
	Spec / Reference	Section	USGv6-v1 Profile Requirements	Context / Configuration Option	Supported Capabilities			Notes about USGv6-v1 Capabilities.			
					Host	Router	NPD	Test Suite Conformance/NPD	Test Lab / Result ID, Note	Test Suite Interoperability	Test Lab / Result ID, Note
Note #											
1											
Discussion:											
2											
Discussion:											
3											
Discussion:											
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Discussion:											
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Vendor's General Notes / Discussion about this Product / Stack's capabilities:											