[1] SL	JPPLIER CONTACT IN	IFORMATION					
			Signature: AShlee Panburana Ashlee Panburana (Jan 19, 2022 11:53 EST)	ASNUEL YUNDUVUNU Ashlee Panburana (Jan 19, 2022 11:53 EST)			
[2] PR	RODUCT VERSION TE	STED	[3] PRODUCT ID				
	IOS X	E 17.6	Cisco Catalyst 9400 Series	s Switches			
		[4] PROD RIES HARDWARE:	OUCT FAMILY APPLICABLE SERIES SOFTW	VADE			
	APPLICABLE SE	RIES HARDWARE	APPLICABLE SERIES SUFTV	VARE			
_			COMPOSITE SDOC				
	itary: All of the declared ssed by original test resul	capabilities of this product are ts reported in this SDoC.	Composite: Some or all of the capabilities are provided by the use and/or integration of u components that have their own unique SDoC relevant referenced SDoCs are identified in se linked.	inmodified s. All of the			
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK			
i.	Cisco		USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet				
			BLE REQUIREMENTS				
	SGv6-r1-Capable-Host		USGv6-r1-Capable-Switch USGv6-r1-C	apable-NPP			
•	NICT CD FOO 267D#4		S) REFERENCED				
i.	NIST SP 500-267Br1,	, USGVO PIOIIIE					
ii.		IOI CUIDDI EMENT	TARY ATTERTATIONS				
			TARY ATTESTATIONS				
That is		nal in dual stack environments. are invalidated if this product is 4) network environment.	This product is fully functional in IPv6 only envi is, no claimed capabilities are invalidated if this	This product has been tested for the IPv6-only capability. 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.			
unique	Pv6 stack in the produc	bilities test report for each et. If not, the stacks/ports not now their IPv6 capabilities differ ed.	All of the products listed in the product family in section 4 are implemented such that their capabilities are identical in form and function across the entire product family. The specific conformance and interoperability test results for the capabilities of an identified member of this product family are provided in this SDoC. The SDoC attests that these tested capabilities are identical and unmodified for all the products cited above.				

Host Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY				
[11]	CAPABILITY	CONFOR	RMANCE	INTEROPERABIL	LITY/FUNCTIONAL NOTES				
[11] SUPPORTED CAPABILITY	O/ II / IBIEIT I	TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID				
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F					
-	Core	Core_R1v1.*_C		Core_R1v1.*_I					
-	Extended-ICMP	Self-Test		Self-Test					
-	PLPMTUD	Self-Test		Self-Test					
-	ND-Ext	Self-Test		Self-Test					
-	ND-WL	Self-Test		Self-Test					
-	SEND	Self-Test		Self-Test					
-	SLAAC	SLAAC_R1v1.*_C		SLAAC_R1v1.*_I					
-	PriAddr	Self-Test		Self-Test					
-	DHCP- Stateless	DHCP- Stateless_R1v1 .*_C		DHCP- Stateless_R1v1 .*_I					
-	DHCP-Client	DHCP- Client_R1v1.*_C		DHCP- Client_R1v1.*_I					
-	DHCP-Client- Ext	Self-Test		Self-Test					
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I					
-	DHCP-Prefix- Ext	Self-Test		Self-Test					
-	6Lo	Self-Test		Self-Test					

Host Capabilities

-	Happy-Eyeballs	Self-Test	Self-Test		
		Addr-	Addr-		
-	Addr-Arch	Arch_R1v1.*_C	Arch_R1v1.*_I		
-	CGA	Self-Test	Self-Test		
-	DNS-Client	Self-Test	Self-Test		
-	URI	Self-Test	Self-Test		
-	NTP-Client	Self-Test	Self-Test		
-	NTP-Server	Self-Test	Self-Test		
-	DNS-Server	Self-Test	Self-Test		
-	DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I		
-	DHCP-Server- Ext	Self-Test	Self-Test		
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I		
-	IPsec	IPsec_R1v1.*_C	IPsec_R1v1.*_I		
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	IPsec-SHA- 512_R1v1.*_I		
-	SSHV2	Self-Test	Self-Test		
-	TLS	Self-Test	Self-Test		
-	TLS-1.3	Self-Test	Self-Test		
-	Tunneling-IP	Self-Test	Self-Test		

Host Capabilities

		Self-Test	1	Colf Toot			
-	Tunneling-UDP			Self-Test			
-	XLAT	Self-Test		Self-Test			
-	NAT64	Self-Test		Self-Test			
-	DNS64	Self-Test		Self-Test			
-	SNMP	Self-Test		Self-Test			
-	Tunneling	Self-Test		Self-Test			
-	DiffServ	Self-Test		Self-Test			
-	NETCONF	Self-Test		Self-Test			
-	SSM	Self-Test		Self-Test			
-	Multicast	Multicast_R1v1 .*_C		Multicast_R1v1 .*_I			
-	ECN	Self-Test		Self-Test			
-	Link =	Self-Test		Self-Test			

Router Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
[11] SUPPORTED	CARARUTTY	CONFOR	RMANCE RESULT ID	TEST	ITY/FUNCTIONAL RESULT ID	NOTES		
CAPABILITY -	CAPABILITY IPv6-ONLY	SELECTION		SELECTION IPv6- ONLY_R1v1.*_F				
PASS	Core	Core_R1v1.*_C	UNH-IOL/34346	Core_R1v1.*_I	UNH-IOL/34348			
-	Extended-ICMP	Self-Test		Self-Test				
-	PLPMTUD	Self-Test		Self-Test				
-	ND-Ext	Self-Test		Self-Test				
-	ND-WL	Self-Test		Self-Test				
-	SEND	Self-Test		Self-Test				
PASS	SLAAC	SLAAC_R1v1.*_C	UNH-IOL/34346	SLAAC_R1v1.*_I	UNH-IOL/34348			
-	PrivAddr	Self-Test		Self-Test				
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I				
-	DHCP-Prefix- Ext	Self-Test		Self-Test				
-	6Lo	Self-Test		Self-Test				
PASS	Addr-Arch	Addr- Arch_R1v1.*_C	UNH-IOL/34347	Addr- Arch_R1v1.*_I	UNH-IOL/34349			
-	CGA	Self-Test		Self-Test				

DNS-Client	Self-Test	Self-Test		
URI	Self-Test	Self-Test		
NTP-Client	Self-Test	Self-Test		
NTP-Server	Self-Test	Self-Test		
DNS-Server	Self-Test	Self-Test		
DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I		
DHCP-Server- Ext	Self-Test	Self-Test		
DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I		
OSPF	Self-Test	OSPF_R1v1.*_I	UNH-IOL/34351	
OSPF-IPsec	Self-Test	Self-Test		
OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	UNH-IOL/34351	
OSPF-Ext	Self-Test	Self-Test		
OSPF-Trans	Self-Test	Self-Test		
OSPF-Graceful	Self-Test	Self-Test		
ISIS	Self-Test	Self-Test		
IS-IS-Auth	Self-Test	Self-Test		
IS-IS-Ext	Self-Test	Self-Test		
IS-IS-MT	Self-Test	Self-Test		
	URI NTP-Client NTP-Server DNS-Server DHCP-Server-Ext DHCP-Relay OSPF OSPF-IPsec OSPF-Auth OSPF-Trans OSPF-Graceful ISIS IS-IS-Auth IS-IS-Ext	URI NTP-Client Self-Test NTP-Server DNS-Server DHCP-Server DHCP-Server-Ext DHCP-Relay DHCP-Relay DHCP-Relay DHCP-Relay CSPF-IPsec OSPF-Auth OSPF-Ext OSPF-Trans OSPF-Graceful ISIS IS-IS-Auth Self-Test Self-Test	DNS-Client URI Self-Test Self-Test NTP-Client NTP-Client Self-Test Self-Test Self-Test DNS-Server DNS-Server DHCP- DHCP-Server- Ext DHCP- DHCP-Relay DHCP- Relay_R1v1.*_C DHCP- Relay_R1v1.*_I OSPF OSPF OSPF-Auth Self-Test OSPF-Auth Self-Test OSPF-Trans OSPF-Trans OSPF-Graceful ISIS Self-Test Self-Test	DNS-Client URI Self-Test Self-Test NTP-Client NTP-Client Self-Test Self-Test NTP-Server DNS-Server DHCP- DHCP-Server DHCP-Server- Ext DHCP- Relay_R1v1.*_C DHCP-Relay DHCP- Relay_R1v1.*_C OSPF Self-Test OSPF-Auth Self-Test OSPF-Ext OSPF-Ext OSPF-Ext OSPF-Trans OSPF-Graceful ISIS Self-Test Self-Test

		Self-Test	BGP_R1v1.*_I	
-	BGP	3011 1001	36	
-	BGP-Reflect	Self-Test	Self-Test	
-	BGP-Graceful	Self-Test	Self-Test	
-	BGP-FlowSpec	Self-Test	Self-Test	
-	BGP-OV	Self-Test	Self-Test	
-	BGP-VPLS	Self-Test	Self-Test	
-	BGP-EVPN	Self-Test	Self-Test	
-	BGP-6VPE	Self-Test	Self-Test	
-	BGP-MVPN	Self-Test	Self-Test	
-	MPLS	Self-Test	Self-Test	
-	CE-Router	CE_Router_R1v 1.*_C	CE_Router_R1v 1.*_I	
-	VRRP	Self-Test	Self-Test	
-	IPsec	IPsec_R1v1.*_C	IPsec_R1v1.*_I	
-	IPsec-VPN	IPsec- VPN_R1v1.*_C	IPsec- VPN_R1v1.*_I	
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	IPsec-SHA- 512_R1v1.*_I	
-	IPsec-SHA-512- VPN	IPsec-SHA-512- VPN_R1v1.*_C	IPsec-SHA-512- VPN_R1v1.*_I	
-	SSHV2	Self-Test	Self-Test	
-	TLS	Self-Test	Self-Test	

-	TLS-1.3	Self-Test	Self-Test		
-	Tunneling-IP	Self-Test	Self-Test		
-	Tunneling-UDP	Self-Test	Self-Test		
-	GRE	Self-Test	Self-Test		
-	DS-Lite	Self-Test	Self-Test		
-	LW4over6	Self-Test	Self-Test		
-	MAP-E	Self-Test	Self-Test		
-	MAP-T	Self-Test	Self-Test		
-	XLAT	Self-Test	Self-Test		
-	NAT64	Self-Test	Self-Test		
-	DNS64	Self-Test	Self-Test		
-	6PE	Self-Test	Self-Test		
-	LISP	Self-Test	Self-Test		
-	SNMP	Self-Test	Self-Test		
-	Tunneling	Self-Test	Self-Test		
-	DiffServ	Self-Test	Self-Test		
-	NETCONF	Self-Test	Self-Test		
-	SSM	Self-Test	Self-Test		

-	PIM-SM	PIM_SM_R1v1.* _C		PIM_SM_R1v1.* _I		
-	PIM-SM-IPsec	Self-Test		Self-Test		
-	PIM-SM-BiDir	Self-Test		Self-Test		
-	Multicast	Multicast_R1v1. *_C		Multicast_R1v1. *_I		
-	ECN	Self-Test		Self-Test		
PASS	Link = Ethernet	Self-Test	Self Declaration	Self-Test	Self Declaration	

Application Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11] SUPPORTED	CAPABILITY	TEST	RMANCE RESULT ID	TEST	ITY/FUNCTIONAL RESULT ID	NOTES	
CAPABILITY -	IPv6-ONLY	SELECTION		SELECTION IPv6- ONLY_R1v1.*_F			
-	App-Serv=			APP- ONLY_R1v1.*_F			
-	Link =			Self-Test			

NPP Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR	RMANCE	INTEROPERABILI	TY/FUNCTIONAL	NOTES	
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
-	FW	FW_R1v1.*_C					
-	APFW	Self-Test					
-	IDS	FW_R1v1.*_C					
-	IPS	FW_R1v1.*_C					
-	Link =	Self-Test					

Switch Capabilities

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY		
[11] SUPPORTED	CAPABILITY	CONFOR TEST	MANCE RESULT ID	INTEROPERABILIT	Y/FUNCTIONAL RESULT ID			
CAPABILITY		SELECTION	RESULT ID	TEST SELECTION		NOTES		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F				
-	DHCPv6-Guard	Self-Test		Self-Test				
-	RA-Guard	Self-Test		Self-Test				
-	MLD-Snooping	Self-Test		Self-Test				
-	Link =	Self-Test		Self-Test				

DIRECTIONS: Please use Adobe Acrobat to complete. Detailed instructions for completing and interpreting each numbered field are given below. Contact usgv6-program@nist.gov with questions.		
1	SUPPLIER CONTACT INFORMATION	Supplier name, address, phone, email and signature (digital recommended). Include printed name and date if wet ink signed.
2	PRODUCT VERSION TESTED	Firmware/ software version of product declared
3	PRODUCT ID	Suppliers concise name for product declared
4	PRODUCT FAMILY	Applicable hardware or software with an unmodified IPv6 stack from "PRODUCT VERSION TESTED"
5	UNITARY OR COMPOSITE	Indicate if this is a unitary or composite SDoC. If composite is checked, composite SDoC must be linked in section 6.
6	REF	Reference number to profile(s) reference in this SDoC
	SUPPLIER	Supplier name
	PRODUCT ID/STACK ID	Product ID must match field 3. As there may be more than one unique IPv6 stack, stack ID identifies particular stack described in CAPABILITY SUMMARY. Each unique stack requires a CAPABILTY SUMMARY.
	CAPABILITY SUMMARY	The strong notation as described in NIST-SP-500-267Ar1 that describes the product capabilities of the given stack.
	COMPOSITE SDOC LINK	URL link to composite SDoC referenced.
7	USGV6-CAPABLE REQUIREMENTS	Refer to section 5 in NIST-SP-500-267Br1 for CSS strings referenced in this section. Check the appropriate box if the product meets the requirements.
8	PROFILE(S) REFERENCED	Profile(s) referenced in the SDoC.
9	SUPPLEMENTARY ATTESTATIONS	Attestations made by the supplier. Check all that apply.
10	PRODUCT ID/STACK ID	PRODUCT ID/STACK ID for stack documented on given page.
	CAPABILITY SUMMARY	CAPABILITY SUMMARY for stack documented on given page.
11	SUPPORTED CAPABILITY	"PASS" – All requirements of the capability have been met "NOTES" – See notes for details regarding the level of support for this capability "X" – Capability not supported
		BLANK – No declaration for this capability
	CAPABILITY	IPv6 Capability as described in NIST-SP-500-267Ar1.
	TEST SELECTION	Test Selection Tables version of capabilities with existing test programs. Capabilities without an existing test program are indicated with "Self-Test"
	RESULT ID	Abbreviation of accredited laboratory and unique identifier of test result. Capabilities with "Self-Test" can be self-declared by writing "Self Declaration" in the cell.
	NOTES	The cell must be filled out if "NOTE" is indicated for SUPPORTED CAPABILITY. Suppliers may use notes to clarify unsupported features or non-passing results.

NIST.SP.500-281Ar1s-C9400

Final Audit Report 2022-01-19

Created: 2022-01-18

By: MICHAYLA NEWCOMBE (mnewcombe@iol.unh.edu)

Status: Signed

Transaction ID: CBJCHBCAABAA-yAB_4T1hgMg0JqZcxBPlz3_ZshqBAC1

"NIST.SP.500-281Ar1s-C9400" History

Document created by MICHAYLA NEWCOMBE (mnewcombe@iol.unh.edu) 2022-01-18 - 10:23:23 PM GMT- IP address: 24.63.13.179

Document emailed to Ashlee Panburana (cisco-usgipv6@cisco.com) for signature 2022-01-18 - 10:24:08 PM GMT

Email viewed by Ashlee Panburana (cisco-usgipv6@cisco.com) 2022-01-18 - 10:36:35 PM GMT- IP address: 172.225.215.189

Document e-signed by Ashlee Panburana (cisco-usgipv6@cisco.com)

Signature Date: 2022-01-19 - 4:53:17 PM GMT - Time Source: server- IP address: 173.38.117.70

Agreement completed. 2022-01-19 - 4:53:17 PM GMT