[1] SUPPLIER CONTACT INFORMATION									
			Signature: AShlee Panburana Ashlee Panburana (Feb 9, 2022 08:34 EST)						
[2] PR	RODUCT VERSION TE	STED	[3] PRODUCT ID						
	IOS-X	Œ 17.6	Catalyst 8000V Edge	Software					
[4] PRODUCT FAMILY									
	APPLICABLE SE	RIES HARDWARE	APPLICABLE SERIES SOFTV	/ARE					
			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 of this product are provided by the use and/or integration of unmodified components that have their own unique SDoCs. All of the relevant referenced SDoCs are identified in section 6 and linked.						
[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						
US	SGv6-r1-Capable-Host		USGv6-r1-Capable-Switch USGv6-r1-C	apable-NPP					
i.	NIST SP 500-267Br1,	· · · · · · · · · · · · · · · · · ·	S) REFERENCED						
ii.									
		[9] SUPPLEMENT	ARY ATTESTATIONS						
That is		nal in dual stack environments. are invalidated if this product is 4) network environment.	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	abilities test report for each st. 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	INTEROPERABILI	TY/FUNCTIONAL	NOTES		
[11] SUPPORTED CAPABILITY	O/ (I / 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	CADADUITY	CONFOR TEST	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/34358	Core_R1v1.*_I	UNH-IOL/34360			
-	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/34358	SLAAC_R1v1.*_I	UNH-IOL/34360			
-	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/34359	Addr- Arch_R1v1.*_I	UNH-IOL/34361			
-	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		
PASS	OSPF	Self-Test	OSPF_R1v1.*_I	UNH-IOL/34363	
-	OSPF-IPsec	Self-Test	Self-Test		
PASS	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	UNH-IOL/34363	
	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		

		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-8000V

Final Audit Report 2022-02-09

Created: 2022-02-07

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

Status: Signed

Transaction ID: CBJCHBCAABAABTpR8jKEiuQ7F1jJEEA4RY5PviKEWleH

"NIST.SP.500-281Ar1s-8000V" History

Document created by MICHAYLA NEWCOMBE (mnewcombe@iol.unh.edu) 2022-02-07 - 10:04:49 PM GMT- IP address: 24.63.13.179

Document emailed to Ashlee Panburana (cisco-usgipv6@cisco.com) for signature 2022-02-07 - 10:05:42 PM GMT

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

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