[1] SL	IPPLIER CONTACT IN	IFORMATION				
			Signature: AShlee Panburana Ashlee Panburana (Jan 24, 2022 10:58 EST)	_		
[2] PR	ODUCT VERSION TE	STED	[3] PRODUCT ID			
		E 17.6.1	C9800-CL			
		[4] PRODL	JCT FAMILY			
	APPLICABLE SE	RIES HARDWARE	APPLICABLE SERIES SOFTV	VARE		
			COMPOSITE SDOC			
		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.	nmodified s. All of the		
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK		
i.	Cisco	C9800-CL/IOS XE 17.6.1	SGv6-r1:Router+Core+SLAAC+Addr-Arch+Link=Ethernet			
U	SGv6-r1-Capable-Host		USGv6-r1-Capable-Switch USGv6-r1-C	apable-NPP		
i.	NIST SP 500-267Br1) REFERENCED			
	NIST SF 500-207 BIT,					
ii.		[9] SUPPLEMENTA	RY ATTESTATIONS			
🖌 ть	is product is fully function	nal in dual stack environments.		only capability		
That is operat	, no claimed capabilities ed in a dual stack (6 and	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 covere	IPv6 stack in the produc	bilities test report for each t. If not, the stacks/ports not now their IPv6 capabilities differ red.	All of the products listed in the product fami implemented such that their capabilities are ide function across the entire product family. The s conformance and interoperability test results fo of an identified member of this product family a SDoC. The SDoC attests that these tested cap identical and unmodified for all the products cit	entical in form and pecific r the capabilities re provided in this abilities are		

Host Capabilities

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY
[11] SUPPORTED	CAPABILITY	CONFOR	RMANCE	INTEROPERABILI	TY/FUNCTIONAL	NOTES
SUPPORTED CAPABILITY		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

		Self-Test	Self-Test		
-	Happy-Eyeballs	Sen-rest	Sen-rest		
-	Addr-Arch	Addr- Arch_R1v1.*_C	Addr- 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

- Tunneling-UDP Self-Test Self-Test - XLAT Self-Test Self-Test	
Self-Test Self-Test	
- XLAT Self-Test	
Self-Test Self-Test	
- NAT64	
- DNS64 Self-Test	
- DNS64	
Self-Test Self-Test	
- SNMP	
- Tunneling Self-Test Self-Test	
Self-Test Self-Test	
- DiffServ	
- NETCONF Self-Test	
Self-Test Self-Test	
- SSM	
Multicast D1v1 Multicast D1v1	
- Multicast_R1v1 .*_C Multicast_R1v1	
Self-Test Self-Test	
- ECN	
Self-Test Self-Test	
- Link =	

Router Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOF TEST SELECTION	RMANCE RESULT ID	TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F				
PASS	Core	Core_R1v1.*_C	UNH-IOL34476	Core_R1v1.*_I	UNH-IOL/34478			
-	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-IOL34476	SLAAC_R1v1.*_I	UNH-IOL/34478			
-	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/34477	Addr- Arch_R1v1.*_I	UNH-IOL/34479			
-	CGA	Self-Test		Self-Test				

Router Capabilities

		Oalf 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	1
-	DHCP-Server- Ext	Self-Test	Self-Test	
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I	
-	OSPF	Self-Test	OSPF_R1v1.*_I	
-	OSPF-IPsec	Self-Test	Self-Test	
-	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	
-	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	BC	GP_R1v1.*_I			
-	BGP						
-	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		_Router_R1v 1.*_I			
-	VRRP	Self-Test		Self-Test			
-	IPsec	IPsec_R1v1.*_C	IPs	sec_R1v1.*_I			
-	IPsec-VPN	IPsec- VPN_R1v1.*_C		IPsec- PN_R1v1.*_I			
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	51	Psec-SHA- 12_R1v1.*_I			
-	IPsec-SHA-512- VPN	IPsec-SHA-512- VPN_R1v1.*_C	VF	ec-SHA-512- PN_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	

Router Capabilities

-	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	CAPABILITY	CONFO TEST SELECTION	RMANCE RESULT ID	INTEROPERABIL TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
-	IPv6-ONLY			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	CONFOF	MANCE	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				

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR	MANCE	INTEROPERABILIT	Y/FUNCTIONAL			
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID	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				

	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
ŀ	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.
3	PROFILE(S) REFERENCED	Profile(s) referenced in the SDoC.
)	SUPPLEMENTARY ATTESTATIONS	Attestations made by the supplier. Check all that apply.
0	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 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-C9800-CL

Final Audit Report

2022-01-24

Created:	2022-01-21
By:	MICHAYLA NEWCOMBE (mnewcombe@iol.unh.edu)
Status:	Signed
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