	[1] CONTACT INFORMATION								
	SUPP		SUPPLIER SIGNATURE						
SUPPL	IER NAME	Cisco Systems Inc.	DocuSigned by:	44 /27 /222					
SUPPL	IER CONTACT EMAIL	kweerakk@cisco.com	kanishka Weerakkody 560F075825FD467	11/27/2023					
	ACCREDITED L	ABORATORY	ACCREDITED LABORATORY SIGN	ATURE					
LABOR	RATORY NAME	UNH InterOperability Laboratory		11 /27 /2023					
LABOR	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Michayla Newcombe F07473996F6F4E1	11/27/2023					
	[2] PRODUCT VE	RSION TESTED	[3] PRODUCT ID						
	IOS XE	17.12.1	C9800-CL						
		[4] PRODI	JCT FAMILY						
	APPLICABLE SER	RIES HARDWARE	APPLICABLE SERIES SOFTWA	ARE					
C9800-	-L, C9800-CL, C9800-40, C9	800-80	[3] PRODUCT ID C9800-CL CT FAMILY APPLICABLE SERIES SOFTWARE IOS XE 17.12.1 OMPOSITE 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. CAPABILITY SUMMARY COMPOSITE SDOC LINK						
		[5] UNITARY OR	COMPOSITE SDOC						
✓ Un	itary: All of the declared ca	apabilities of this product are		of this product					
	ssed by original test results		are provided by the use and/or integration of unmodified						
507				2011000175					
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY						
i.	Cisco Systems Inc.	C9800-CL/IOS XE 17.12.1	JSGv6-r1:Router+Core+SLAAC+Addr-Arch+Link=Ethernet						
		[7] USGV6-CAPAB	LE REQUIREMENTS						
U:	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router		pable-NPP					
		`	REFERENCED						
i.	NIST SP 500-267Br1, U	SGv6 Profile							
ii.		[9] SUPPLEMENTA	ARY ATTESTATIONS						
This product is fully functional in dual stack environments.									
That is	s, no claimed capabilities ar	re invalidated if this product is d IPv4) network environment.	That is, no claimed capabilities are invalidated if deployed in a network environment that does no	this product is					
Th	nis SDoC contains a capabi	ilities test report for each	X All of the products listed in the product family	in section 4 are					
	e IPv6 stack in the product.	If not, the stacks/ports not w their IPv6 capabilities differ	implemented such that their capabilities are identification across the entire product family. The sp						
	hose reported are explained		conformance and interoperability test results for	the capabilities					
			of an identified member of this product family are						
			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
[44]	CADADILITY	CONFOR	OMANICE.	INTEROPERABILI	TV/FUNCTIONAL	NOTES
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RESULT ID	INTEROPERABILI' TEST SELECTION	RESULT ID	NOTES
-	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			
		Addr-	Addr-	
-	Addr-Arch	Arch_R1v1.*_C	Arch_R1v1.*_I	
		Self-Test	Self-Test	
-	CGA	3311 1331	30/1/301	
-	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		
-	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		
	C9800	-CL/IOS XE 1	7.12.1		USGv6-r1:Router+Core+SLAAC+Addr-Arch+Link=Ethernet		
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RMANCE RESULT ID	TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/37345	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/37340	Core_R1v1.*_I	UNH-IOL/37342	The SDoC pertains to the IPv6 stack on the following ports: switched ports	
-	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/37340	SLAAC_R1v1.*_I	UNH-IOL/37342	The SDoC pertains to the IPv6 stack on the following ports: switched ports	
-	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/37341	Addr- Arch_R1v1.*_I	UNH-IOL/37343	The SDoC pertains to the IPv6 stack on the following ports: switched ports	
-	CGA	Self-Test		Self-Test			

USGv6 Profile Supplier's Declaration of Conformity (SDoC) R1.1

Router Capabilities

_	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	
-	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	

Router Capabilities

		Self-Test	BGP_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	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	

USGv6 Profile Supplier's Declaration of Conformity (SDoC) R1.1

-	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

NIST.SP.500-281Ar1s

-	PIM-SM	Self-Test		Self-Test		
-	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]	CAPABILITY	CONEO	RMANCE	INTEROPERABII	LITY/FUNCTIONAL	NOTES
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID	
-	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	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]	CAPABILITY	CONFOR	MANCE	INTEROPERABILI7				
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				

1	CONTACT INFORMATION	Supplier name, email and signature (digital recommended). Include printed name and date if wet ink signed. Accredited laboratory name, 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 b 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.

SUPPLIER GENERAL NOTES