			INFORMATION			
CUIDDI	SUPF		SUPPLIER SIGNATURE			
	LIER NAME	Cisco Systems Inc.	Eanishka Weerakkody	12/20/2023		
SUPPI	LIER CONTACT EMAIL	kweerakk@cisco.com	ACCREDITED LABORATORY SIGI	MATURE		
LARO	ACCREDITED I	UNH InterOperability Laboratory		NATURE		
			Michaela Newcombe	12/21/2023		
LABO	RATORY CONTACT EMAIL [2] PRODUCT VE	usgv6-sdoc@iol.unh.edu	[3] PRODUCT ID			
	IOS-XE		C8300-1N1S	-6T		
		[4] PRODU	ICT FAMILY			
	APPLICABLE SEF	RIES HARDWARE	APPLICABLE SERIES SOFTW	ARE		
	00-2N2S-4T2X, C83(00-1N1S-4T2X, C83(•	IOS XE 17.12, IOS XE 17.12 with C Services	CUBE		
		[5] UNITARY OR (COMPOSITE SDOC			
	nitary : All of the declared ca ssed by original test results	apabilities of this product are reported in this SDoC.	Composite: Some or all of the capabilities are provided by the use and/or integration of use components that have their own unique SDoCs relevant referenced SDoCs are identified in seclinked.	nmodified s. All of the		
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK		
i.	Cisco Systems Inc.	C8300-1N1S-6T/IOS-XE 17.12	SGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Etherne	et		
			LE REQUIREMENTS			
U	SGv6-r1-Capable-Host	·	<u> </u>	apable-NPP		
i.	NIST SP 500-267Br1, U	,) REFERENCED			
ii.						
		[9] SUPPLEMENTA	RY ATTESTATIONS			
That is	s, no claimed capabilities a ted in a dual stack (IPv6 an	al in dual stack environments. re invalidated if this product is d IPv4) network environment.	X This product is fully functional in IPv6 only That is, no claimed capabilities are invalidated i deployed in a network environment that does no	f this product is ot support IPv4.		
unique	his SDoC contains a capab e IPv6 stack in the product. ed are documented, and ho hose reported are explaine	If not, the stacks/ports not ow their IPv6 capabilities differ	X 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		INTEROPERABILI		NOTES			
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID				
-	IPv6-ONLY	5		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

		Self-Test	Self-Test		
_	Tunneling-UDP	Sell-Test	Sell-Test		
-	Turriening-ODP				
		Self-Test	Self-Test		
	XLAT	3611-1631	3611-1631		
-	ALAI				
		Self-Test	Self-Test		
_	NAT64	0011 1031	och rest		
	10.1101				
		Self-Test	Self-Test		
_	DNS64				
		Self-Test	Self-Test		
-	SNMP				
		Self-Test	Self-Test		
-	Tunneling				
		Self-Test	Self-Test		
-	DiffServ				
			0.16 =		
	NETOONE	Self-Test	Self-Test		
-	NETCONF				
		Self-Test	Self-Test		
_	SSM	Sell-Test	Sen-rest		
-	CON				
		Multicast R1v1	Multicast R1v1		
_	Multicast	Multicast_R1v1 .*_C	Multicast_R1v1 .*_I		
		-	· <u> </u>		
		Self-Test	Self-Test		
-	ECN				
		Self-Test	Self-Test		
-	Link =				

Router Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
	C8300-1	N1S-6T/IOS-X	XE 17.12		USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet		
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOF TEST SELECTION	RMANCE RESULT ID	TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/37557	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/37552	Core_R1v1.*_I	UNH-IOL/37554	This SDoC pertains to the IPv6 stack on the following ports: routed 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/37552	SLAAC_R1v1.*_I	UNH-IOL/37554	This SDoC pertains to the IPv6 stack on the following ports: routed 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/37553	Addr- Arch_R1v1.*_I	UNH-IOL/37555	This SDoC pertains to the IPv6 stack on the following ports: routed ports.	
-	CGA	Self-Test		Self-Test			

Router Capabilities

	1	0.15 = 1		10 = 4		
_	DNS-Client	Self-Test	S	elf-Test		
-	URI	Self-Test	S	elf-Test		
-	NTP-Client	Self-Test		elf-Test		
-	NTP-Server	Self-Test		elf-Test		
-	DNS-Server	Self-Test		elf-Test		
-	DHCP-Server	DHCP- Server_R1v1.*_C	Serve	OHCP- er_R1v1.*_I		
-	DHCP-Server- Ext	Self-Test		elf-Test		
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	Rela	OHCP- y_R1v1.*_I		
PASS	OSPF	Self-Test		F_R1v1.*_I	UNH-IOL/37556	This SDoC pertains to the IPv6 stack on the following ports: routed ports.
-	OSPF-IPsec	Self-Test		elf-Test		
PASS	OSPF-Auth	Self-Test		OSPF- n_R1v1.*_I	UNH-IOL/37556	This SDoC pertains to the IPv6 stack on the following ports: routed ports.
-	OSPF-Ext	Self-Test	Se	elf-Test		
-	OSPF-Trans	Self-Test	So	elf-Test		
-	OSPF-Graceful	Self-Test	Se	elf-Test		
-	ISIS	Self-Test		elf-Test		
-	IS-IS-Auth	Self-Test		elf-Test		
-	IS-IS-Ext	Self-Test	Se	elf-Test		
-	IS-IS-MT	Self-Test	Se	elf-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	

-	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	

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

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	
		Self-Test	Self-Test	
-	ECN	Jell-Test	oen rest	

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

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	INTEROPERABILITY	//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				

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 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