	CLIDE		INFORMATION SUPPLIER SIGNATURE								
SUPPI	SUPF LIER NAME	Cisco Systems Inc.	SUPPLIER SIGNATURE  — Docusigned by:								
	LIER CONTACT EMAIL	ascummin@cisco.com	Ashlee Panburana	1/24/2024							
SUPPL	ACCREDITED I		—56CF075825FD467  ACCREDITED LABORATORY SIGI	NATURE							
LABOI	RATORY NAME	UNH InterOperability Laboratory	DocuSigned by:								
LABOI	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Michagla Newcombe	1/24/2024							
	[2] PRODUCT VE		F07473996FBF4E1 [3] PRODUCT ID								
		<b>= 17.12</b>	C8200L-1N-4	1T							
[4] PRODUCT FAMILY											
	APPLICABLE SEF	RIES HARDWARE	APPLICABLE SERIES SOFTW	ARE							
C820	C8200L-1N-4T, C8200-1N-4T IOS XE 17.12, IOS XE 17.12 with CUBE Services										
			COMPOSITE SDOC								
	<b>litary</b> : All of the declared cased by original test results	apabilities of this product are 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 Systems Inc.	C8200L-1N-4T/IOS-XE 17.12	SGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Etherne	pt							
		[7] USGV6-CAPABI	LE REQUIREMENTS								
U:	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Ca	apable-NPP							
	NIOT OD FOO COZD 4 1		) REFERENCED								
i. ii.	NIST SP 500-267Br1, U	JSGV6 Profile									
11.		[9] SUPPLEMENTA	RY ATTESTATIONS								
That is operat	s, no claimed capabilities a ted in a dual stack (IPv6 ar	al in dual stack environments. re invalidated if this product is nd IPv4) network environment.	This product is fully functional in IPv6 only That is, no claimed capabilities are invalidated in deployed in a network environment that does not be a control of the contr	f this product is ot support IPv4.							
unique covere		If not, the stacks/ports not ow their IPv6 capabilities differ	implemented such that their capabilities are identification across the entire product family. The specific conformance and interoperability test results for of an identified member of this product family are	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							

# **Host Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY				
[44]	CADABILITY	OONEOR	MANOF	INTEROPERABLE	ITV/FUNCTIONAL				
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RESULT ID	INTEROPERABILI TEST SELECTION	RESULT ID	NOTES			
-	IPv6-ONLY	SEESHON		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	Self-Test	Self-Test			
	DNS-Client	Self-Test	Self-Test			
-	DNS-Client					
		Self-Test	Self-Test			
-	URI					
		Self-Test	Self-Test			
-	NTP-Client					
		Self-Test	Self-Test			
-	NTP-Server	3311 130t	3011 1031			
		Self-Test	Self-Test			
_	DNS-Server	Self-Test	Self-Test			
	DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I			
-	DHCF-Server	Server_KTVTC	Server_KTV11			
	DHCP-Server-	Self-Test	Self-Test			
-	Ext					
		DHCP-	DHCP-			
-	DHCP-Relay	Relay_R1v1.*_C	Relay_R1v1.*_I			
		IPsec_R1v1.*_C	IPsec_R1v1.*_I			
-	IPsec	5005	555			
		IPsec-SHA-	IPsec-SHA-			
_	IPsec-SHA-512	512_R1v1.*_C	512_R1v1.*_I			
_	SSHV2	Self-Test	Self-Test			
_	001142					
	TIC	Self-Test	Self-Test		 	
-	TLS					
		Self-Test	Self-Test			
-	TLS-1.3					
		Self-Test	Self-Test			
-	Tunneling-IP					

### **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
	C8200L	-1N-4T/IOS-X	E 17.12		USGv6-r1:Rout	ter+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOF TEST SELECTION	RMANCE RESULT ID	INTEROPERABILITY/FUNCTIONAL TEST RESULT ID SELECTION		NOTES
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/37563	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.
PASS	Core	Core_R1v1.*_C	UNH-IOL/37558	Core_R1v1.*_I	UNH-IOL/37560	This SDoC pertains to the IPv6 stack for 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/37558	SLAAC_R1v1.*_I	UNH-IOL/37560	This SDoC pertains to the IPv6 stack for 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/37559	Addr- Arch_R1v1.*_I	UNH-IOL/37561	This SDoC pertains to the IPv6 stack for the following ports: routed ports
-	CGA	Self-Test		Self-Test		

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### 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		
PASS	OSPF	Self-Test	OSPF_R1v1.*_I	UNH-IOL/37562	This SDoC pertains to the IPv6 stack for the following ports: routed ports
-	OSPF-IPsec	Self-Test	Self-Test		
PASS	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	UNH-IOL/37562	This SDoC pertains to the IPv6 stack for the following ports: routed ports
-	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	
- 1	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	
- 1	IPsec-VPN	IPsec- VPN_R1v1.*_C	IPsec- VPN_R1v1.*_I	
- 1	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		elf-Test			
-	Tunneling-IP	Self-Test		elf-Test			
-	Tunneling-UDP	Self-Test		elf-Test			
-	GRE	Self-Test		elf-Test			
-	DS-Lite	Self-Test		elf-Test			
-	LW4over6	Self-Test		elf-Test			
-	MAP-E	Self-Test		elf-Test			
-	MAP-T	Self-Test		elf-Test			
-	XLAT	Self-Test		elf-Test			
-	NAT64	Self-Test		elf-Test			
-	DNS64	Self-Test		elf-Test			
-	6PE	Self-Test		elf-Test			
-	LISP	Self-Test		elf-Test			
-	SNMP	Self-Test		elf-Test			
-	Tunneling	Self-Test		elf-Test			
-	DiffServ	Self-Test		elf-Test			
-	NETCONF	Self-Test		elf-Test			
-	SSM	Self-Test	So	elf-Test			

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

### Router Capabilities

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-	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	CONFO	RMANCE	INTERODERABI	ILITY/FUNCTIONAL NOTES			
[11] 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		INTEROPERABILITY/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