	SUPP			SIGNATURE				
SUPP		Cisco Systems Inc.	DocuSigned by:	SIGNATURE				
		kweerakk@cisco.com	kanislika Weerakkody	9/	/5/2023			
00111	ACCREDITED L	-	ACCREDITED LABORATORY SIGNATURE					
LABO		UNH InterOperability Laboratory						
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Aside and a Aburran la	5/	5/2025			
	[2] PRODUCT VE		F07473990FBF4E1	DDUCT ID				
	IOS-XE	17.11	Cisco Network Converg	Cisco Network Convergence System 4200 Series				
		[4] PRODU	JCT FAMILY					
	APPLICABLE SER	IES HARDWARE	APPLICABLE SE	ERIES SOFTWA	RE			
NCS	4206 (RSP3_400), N	ICS4216 (RSP3_400)	IOS-XE 17.11					
			COMPOSITE SDOC					
	iitary : All of the declared ca ssed by original test results	pabilities 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 SUMMA	ARY	COMPOSITE SDOC LINK			
i.	Cisco Systems Inc.	Cisco Network Convergence System 4200 Series /IOS-XE 17.11	JSGv6-r1:Router+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet					
	SGv6-r1-Capable-Host		LE REQUIREMENTS	USGv6-r1-Cap	able-NPP			
) REFERENCED					
i.	NIST SP 500-267Br1, U							
ii.								
<u> </u>			ARY ATTESTATIONS					
That is	s, no claimed capabilities ar	l in dual stack environments. e invalidated if this product is d IPv4) network environment.	X 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	nis SDoC contains a capabi e IPv6 stack in the product. ed are documented, and ho hose reported are explained	If not, the stacks/ports not w 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	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				

Happy-Eyeballs			
Addr-Arch	Addr- Arch_R1v1.*_C	Addr- Arch_R1v1.*_I	
CGA	Self-Test		
DNS-Client	Self-Test		
URI			
NTP-Client	Self-Test	Self-Test	
NTP-Server	Self-Test	Self-Test	
DNS-Server	Self-Test	Self-Test	
DHCP-Server	Server_R1v1.*_C	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	
	Addr-ArchCGADNS-ClientURINTP-ClientNTP-ServerDNS-ServerDHCP-ServerDHCP-RelayIPsecIPsec-SHA-512SSHV2TLSTLS-1.3	Addr-ArchAddr-Arch_R1v1.*_CAddr-ArchSelf-TestCGASelf-TestDNS-ClientSelf-TestURISelf-TestNTP-ClientSelf-TestNTP-ServerSelf-TestDNS-ServerSelf-TestDHCP-ServerSelf-TestDHCP-ServerSelf-TestDHCP-ServerSelf-TestDHCP-RelayDHCP- Relay_R1v1.*_CIPsecIPsec_SHA- 512_R1v1.*_CIPsec-SHA-512Self-TestTLSSelf-TestTLS-1.3Self-Test	Happy-EyeballsAddr- Arch_R1v1.*_CAddr- Arch_R1v1.*_LAddr-ArchArch_R1v1.*_CAddr- Arch_R1v1.*_LCGASelf-TestSelf-TestDNS-ClientSelf-TestSelf-TestURISelf-TestSelf-TestNTP-ClientSelf-TestSelf-TestNTP-ServerSelf-TestSelf-TestDNS-ServerSelf-TestSelf-TestDHCP-ServerSelf-TestSelf-TestDHCP-ServerSelf-TestSelf-TestDHCP-ServerSelf-TestSelf-TestDHCP-RelayDHCP- Relay_R1v1.*_CDHCP- Relay_R1v1.*_IIPsecIPsec_SHA-512Self-TestSHV2Self-TestSelf-TestTLSSelf-TestSelf-TestTLS-1.3Self-TestSelf-Test

Host Capabilities

		Self-Test	Self-Test			
-	Tunneling-UDP					
	XLAT	Self-Test	Self-Test			
-						
		Self-Test	Self-Test			
-	NAT64					
		Self-Test	Self-Test			
-	DNS64	och rest	och rest			
_	SNMP	Self-Test	Self-Test			
-	SINIVIE					
		Self-Test	Self-Test			
-	Tunneling					
		Self-Test	Self-Test			
-	DiffServ					
			 0.16 7.11			
_	NETCONF	Self-Test	Self-Test			
	ILL I COIN					
		Self-Test	Self-Test			
-	SSM					
		Multicast R1v1	 Multicast R1v1			
-	Multicast	Multicast_R1v1 .*_C	Multicast_R1v1 .*_I			
		Self-Test	 Self-Test			
_	ECN	Sen-Test	Sen-rest			
		Self-Test	Self-Test			
-	Link =					
L				1		

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
Cisco Netw	ork Converge	nce System 4	200 Series/IC	S-XE 17.11	USGv6-r1:Router+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/36783	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.		
NOTES	Core	Core_R1v1.*_C	UNH-IOL/36778	Core_R1v1.*_I	UNH-IOL/36780	 This SDoC pertains to the IPv6 stack for the following ports: routed ports. The DUT does not support forwarding Redirect messages to alternate routers. 		
-	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/36778	SLAAC_R1v1.*_I	UNH-IOL/36780	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/36779	Addr- Arch_R1v1.*_I	UNH-IOL/36781	This SDoC pertains to the IPv6 stack for the following ports: routed ports.		
-	CGA	Self-Test		Self-Test				

			 0.17 -		
-	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/36782	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/36782	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		

		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		

-	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] SUPPORTED CAPABILITY	CAPABILITY	CONFO TEST SELECTION	RMANCE RESULT ID	INTEROPERABIL TEST SELECTION IPv6-	LITY/FUNCTIONAL RESULT ID	NOTES	
-	IPv6-ONLY			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	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						

Switch Capabilities

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