	SUPP		INFORMATION SUPPLIER SIGNATURE	
SUPPL	LIER NAME	Cisco Systems Inc.	DocuSigned by:	
SUPPL	LIER CONTACT EMAIL	kweerakk@cisco.com	- kanishka Werakkody 58CF078828FD487	11/15/2023
	ACCREDITED L		ACCREDITED LABORATORY SIGN	ATURE
LABOI	RATORY NAME	UNH InterOperability Laboratory	DocuSigned by:	
LABOI	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Michayla Newcombe F07473996FBF4E1	11/16/2023
	[2] PRODUCT VE		[3] PRODUCT ID	
	IOS XE	17.12.1	C9500-16X	
		[4] PRODI	JCT FAMILY	
	APPLICABLE SER	RIES HARDWARE	APPLICABLE SERIES SOFTWA	ARE
	-12Q, C9500-24Q, C9500-40 -32QC, C9500-24Y4C, C950	0-48Y4C	IOS XE 17.12.1	
		[5] UNITARY OR	COMPOSITE SDOC	
	itary : All of the declared ca ssed by original test results	apabilities of this product are reported in this SDoC.	are provided by the use and/or integration of un components that have their own unique SDoCs. relevant referenced SDoCs are identified in seclinked.	modified All of the
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK
i.	Cisco Systems Inc.	C9500-16X/IOS XE 17.12.1	JSGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet	
		[7] USGV6-CAPAB	LE REQUIREMENTS	
	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Ca	pable-NPP
_	NIOT OF TOO STEEL STEEL	<u> </u>	REFERENCED	
i.	NIST SP 500-267Br1, U	ISGv6 Profile		
ii.		[9] SUPPLEMENTA	ARY ATTESTATIONS	
That is operat	s, no claimed capabilities ar	Il in dual stack environments. re invalidated if this product is d IPv4) network environment. ilities test report for each	X This product is fully functional in IPv6 only e That is, no claimed capabilities are invalidated if deployed in a network environment that does not X All of the products listed in the product family	this product is support IPv4.
unique	e IPv6 stack in the product.	If not, the stacks/ports not w their IPv6 capabilities differ	implemented such that their capabilities are iden function across the entire product family. The spiconformance and interoperability test results for of an identified member of this product family are SDoC. The SDoC attests that these tested capal identical and unmodified for all the products cited.	tical in form and ecific the capabilities e provided in this bilities are

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

-	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		
	C9500-	·16X/IOS XE	17.12.1		USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet		
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RMANCE RESULT ID	INTEROPERABIL TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/37339	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/37334	Core_R1v1.*_I	UNH-IOL/37336	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/37334	SLAAC_R1v1.*_I	UNH-IOL/37336	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/37335	Addr- Arch_R1v1.*_I	UNH-IOL/37337	The SDoC pertains to the IPv6 stack on the following ports: switched ports	
-	CGA	Self-Test		Self-Test			

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		0.15 = 4		0.15.7		
_	DNS-Client	Self-Test		Self-Test		
	Divo Ciloni					
		Self-Test		Self-Test		
-	URI					
		Self-Test		Self-Test		
-	NTP-Client					
		Self-Test		Self-Test		
_	NTP-Server	Sell-Test		Self-Test		
	DNC Camara	Self-Test		Self-Test		
-	DNS-Server					
		DHCP-		DHCP-		
-	DHCP-Server	Server_R1v1.*_C	Se	erver_R1v1.*_I		
		Self-Test		Self-Test		
-	DHCP-Server- Ext	3011 1331				
	EXI	DHCP-		DHCP-		
_	DHCP-Relay	Relay_R1v1.*_C	R	elay_R1v1.*_I		
	Direct Relay					
DAGG	0000	Self-Test	0	SPF_R1v1.*_I		The SDoC pertains to the IPv6 stack on the following ports: switched ports
PASS	OSPF				UNH-IOL/37338	
		Self-Test		Self-Test		
-	OSPF-IPsec					
		Self-Test		OSPF-		The CD-C residence to the ID-C stock on the following marks, switched and some
PASS	OSPF-Auth	3311 1331	A	\uth_R1v1.*_I	UNH-IOL/37338	The SDoC pertains to the IPv6 stack on the following ports: switched ports
		O. If T (O IS To al		
_	OSPF-Ext	Self-Test		Self-Test		
	OOI I EX					
		Self-Test		Self-Test		
-	OSPF-Trans					
		Self-Test		Self-Test		
-	OSPF-Graceful					
		Self-Test		Self-Test		
-	ISIS	- Och Test				
		2 10 = 1				
	IS-IS-Auth	Self-Test		Self-Test		
-	13-13-Auti1					
		Self-Test		Self-Test		
-	IS-IS-Ext					
		Self-Test		Self-Test		
1					I	
-	IS-IS-MT					

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		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	

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	

Application Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFO	RMANCE	INTERODERABI	LITY/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	RMANCE	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] PRODUCT ID/ STACK ID						CAPABILITY SUMMARY	
[11]	CAPABILITY	CONFORMANCE		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