	SUPP		INFORMATION SUPPLIER SIGNATURE				
SUPPI	LIER NAME	Cisco Systems Inc.					
SUPPI	LIER CONTACT EMAIL	ascummin@cisco.com	Docusigned by: Usulu Paubwana	5/24/2023			
00111	ACCREDITED L		ACCREDITED LABORATORY SIGN	NATURE			
LABO	RATORY NAME	UNH InterOperability Laborator					
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed	Act I Alex I	5/24/2023			
	[2] PRODUCT VE		[3] PRODUCT ID				
	IOS-XI	E 17.9	C8500L-8S4X				
		[4] PROD	UCT FAMILY				
	APPLICABLE SER	RIES HARDWARE	APPLICABLE SERIES SOFTWA	ARE			
C850	00L-8S4X		IOS-XE 17.9				
		[5] UNITARY OR	COMPOSITE SDOC				
		apabilities of this product are	Composite: Some or all of the capabilities of				
addre	ssed by original test results	reported in this SDoC.	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 sec				
[6]	SUPPLIER	PRODUCT ID/STACK ID	linked. CAPABILITY SUMMARY	COMPOSITE			
REF				SDOC LINK			
i.	Cisco Systems Inc.	C8500L-8S4X/IOS-XE 17.9	USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet	t			
		[7] USGV6-CAPAE	BLE REQUIREMENTS				
U	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Ca	ıpable-NPP			
	NIOT OD 500 007D-4 11		S) REFERENCED				
i. ii.	NIST SP 500-267Br1, U	ISGV6 Profile					
•••		[9] SUPPLEMENT.	ARY ATTESTATIONS				
		ıl in dual stack environments.	X This product is fully functional in IPv6 only e				
		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				
TI	his SDoC contains a capabi	ilities test report for each	X All of the products listed in the product family				
unique	e IPv6 stack in the product.		implemented such that their capabilities are iden function across the entire product family. The sp	itical in form and			
	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 capa				
			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		
	C8500	L-8S4X/IOS-X	Œ 17.9		USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+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/36375	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/36370	Core_R1v1.*_I	UNH-IOL/36372	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/36370	SLAAC_R1v1.*_I	UNH-IOL/36372	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/36371	Addr- Arch_R1v1.*_I	UNH-IOL/36373	This SDoC pertains to the IPv6 stack for the following ports: routed 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		
PASS	OSPF	Self-Test	OSPF_R1v1.*_I	UNH-IOL/36374	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/36374	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		
-	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.	Multicast_R1v1.	
-	Willicast	*_C	*_I	
-	ECN	*_C Self-Test	*_l Self-Test	

Application Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	[11] CAPABILITY		RMANCE	INTEROPERABI	LITY/FUNCTIONAL	NOTES	
SUPPORTED		TEST	RESULT ID	TEST	RESULT ID		
CAPABILITY		SELECTION		SELECTION			
-	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