	CLIDD		INFORMATION								
SHDDI	SUPP LIER NAME	Cisco Systems Inc.	SUPPLIER SIGNATURE								
	LIER CONTACT EMAIL	kweerakk@cisco.com		10/6/2023							
SUPPL	ACCREDITED L		ACCREDITED LABORATORY SIGN	JATURE							
LABO	RATORY NAME	UNH InterOperability Laborator	DocuSigned by:								
	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed	Michayla Newcombe	10/6/2023							
LABOI	[2] PRODUCT VE		[3] PRODUCT ID								
	IOS XE		C9407R								
[4] PRODUCT FAMILY											
	APPLICABLE SER	IES HARDWARE	APPLICABLE SERIES SOFTW	ARE							
	4R, C9407R, C9410R, C 0-SUP-1XL, C9400-SUP		IOS XE 17.12.1								
	[5] UNITARY OR COMPOSITE SDOC										
	<b>itary</b> : 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 SUMMARY	COMPOSITE SDOC LINK							
i.	Cisco Systems Inc.	C9407R/IOS XE 17.12.1	USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Etherne	t							
		[7] USGV6-CAPAE	BLE REQUIREMENTS								
□U:	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router		apable-NPP							
_	I		S) REFERENCED								
i. ii.	NIST SP 500-267Br1, U	SGv6 Profile									
11.		[9] SUPPLEMENT	ARY ATTESTATIONS								
That is operated	s, no claimed capabilities ar ted in a dual stack (IPv6 and	l in dual stack environments. e invalidated if this product is d IPv4) network environment.	X This product is fully functional in IPv6 only of That is, no claimed capabilities are invalidated if deployed in a network environment that does not be a second or	this product is tsupport IPv4.							
unique	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		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**

		Calf Task	1	Calf Tast			
-	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			
	C940	7R/IOS XE 17	7.12.1		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/37077	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.		
PASS	Core	Core_R1v1.*_C	UNH-IOL/37072	Core_R1v1.*_I	UNH-IOL/37074	This SDoC pertains to the IPv6 stack for 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/37072	SLAAC_R1v1.*_I	UNH-IOL/37074	This SDoC pertains to the IPv6 stack for 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/37073	Addr- Arch_R1v1.*_I	UNH-IOL/37075	This SDoC pertains to the IPv6 stack for the following ports: switched ports		
-	CGA	Self-Test		Self-Test				

### Router Capabilities

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		0.15 - 1	0.15		
- 1	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/37076	This SDoC pertains to the IPv6 stack for the following ports: switched ports.
-	OSPF-IPsec	Self-Test	Self-Test		
PASS	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	UNH-IOL/37076	This SDoC pertains to the IPv6 stack for the following ports: switched 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		

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-	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

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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] SUPPORTED CAPABILITY	CAPABILITY  IPv6-ONLY	CONFO TEST SELECTION	RMANCE RESULT ID	INTEROPERABIL TEST SELECTION IPv6- ONLY_R1v1.*_F	ITY/FUNCTIONAL RESULT ID	NOTES	
-	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					

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

### **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 CAPABILITY 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