	OLIDO		INFORMATION								
CURR	SUPP LIER NAME		SUPPLIER SIGNATURE  DocuSigned by:								
		Cisco Systems Inc.	,	12/13/2023							
SUPP	LIER CONTACT EMAIL	kweerakk@cisco.com	56CF075825FD467	JATUDE							
LADO	ACCREDITED L		ACCREDITED LABORATORY SIGN	NATURE							
	RATORY NAME	UNH InterOperability Laborator		12/14/2023							
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed									
	[2] PRODUCT VERSION TESTED [3] PRODUCT ID										
	IOS XE	17.12.1	C9606R								
	[4] PRODUCT FAMILY										
	APPLICABLE SER	IES HARDWARE	APPLICABLE SERIES SOFTW	ARE							
C960	6R, C9600-SUP-1		IOS XE 17.12.1								
		[5] LINITADV ∩D	COMPOSITE SDOC								
<b>V</b> Ur	nitary: All of the declared ca	pabilities of this product are	Composite: Some or all of the capabilities	of this product							
	ssed by original test results		are provided by the use and/or integration of ur	nmodified							
			components that have their own unique SDoCs relevant referenced SDoCs are identified in sec								
			linked.	tion o and							
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK							
KEF i.	Cisco Systems Inc.	C9606R/IOS XE 17.12.1	USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Etherne								
1.	Cisco Systems inc.	0300017100 AL 17.12.1		`							
		[7] USGV6-CAPAE	BLE REQUIREMENTS								
U	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Ca	apable-NPP							
_			S) REFERENCED								
i. ii.	NIST SP 500-267Br1, U	SGV6 Profile									
11.		[9] SUPPLEMENT	ARY ATTESTATIONS								
ХT	his product is fully functiona	I in dual stack environments.	This product is fully functional in IPv6 only	environments.							
That i	s, no claimed capabilities ar	e invalidated if this product is	That is, no claimed capabilities are invalidated if this product is								
	·	d IPv4) network environment.	deployed in a network environment that does not support IPv4.								
uniqu	his SDoC contains a capabi e IPv6 stack in the product.	If not, the stacks/ports not	X All of the products listed in the product family in section 4 are implemented such that their capabilities are identical in form and								
cover	ed are documented, and ho	w their IPv6 capabilities differ	function across the entire product family. The sp	ecific							
Irom t	hose reported are explained	1.	conformance and interoperability test results for of an identified member of this product family ar								
			SDoC. The SDoC attests that these tested capa identical and unmodified for all the products cite	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					

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

# **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			
	C960	6R/IOS XE 17	7.12.1		USGv6-r1:Router+Core+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/37436	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.		
PASS	Core	Core_R1v1.*_C	UNH-IOL/37431	Core_R1v1.*_I	UNH-IOL/37433	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/37431	SLAAC_R1v1.*_I	UNH-IOL/37433	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/37432	Addr- Arch_R1v1.*_I	UNH-IOL/37434	The SDoC pertains to the IPv6 stack on the following ports: switched 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		
OSPF	Self-Test		OSPF_R1v1.*_I	UNH-IOL/37435	The SDoC pertains to the IPv6 stack on the following ports: switched ports
OSPF-IPsec	Self-Test		Self-Test		
OSPF-Auth	Self-Test		OSPF- Auth_R1v1.*_I	UNH-IOL/37435	The SDoC pertains to the IPv6 stack on 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		
	URI  NTP-Client  NTP-Server  DNS-Server  DHCP-Server-Ext  DHCP-Relay  OSPF  OSPF-IPsec  OSPF-Auth  OSPF-Trans  OSPF-Graceful  ISIS  IS-IS-Auth  IS-IS-Ext	URI  NTP-Client  Self-Test  NTP-Server  DNS-Server  DHCP-Server  DHCP-Server-Ext  DHCP-Relay  DHCP-Relay  DHCP-Relay  DHCP-Relay  Cospf  Self-Test  Self-Test	URI  NTP-Client  NTP-Server  Self-Test  NTP-Server  DNS-Server  DHCP-Server  DHCP-Server-Ext  DHCP-Relay  DHCP-Relay  Self-Test  OSPF  OSPF-IPsec  OSPF-Auth  OSPF-Ext  OSPF-Trans  OSPF-Graceful  ISIS  Self-Test  Self-Test	DNS-Client  URI  Self-Test  Self-Test  NTP-Client  NTP-Server  Self-Test  DNS-Server  DHCP- DHCP-Server  Self-Test  DHCP-Server-R1v1.*_C  DHCP-Server-R1v1.*_C  DHCP-Relay  DHCP-Relay  Relay_R1v1.*_C  DHCP-Relay  Self-Test  OSPF  OSPF  OSPF-Auth  Self-Test  OSPF-Auth  Self-Test  Self-Test	DNS-Client  URI  Self-Test  Self-Test  Self-Test  NTP-Client  Self-Test  Self-Test  DNS-Server  DHCP-Server  DHCP-Server-R1v1.*_C  DHCP-Server-Rtv1.*_I  DHCP-Relay  DHCP-Relay  Relay_R1v1.*_C  OSPF  OSPF  Self-Test  OSPF-R1v1.*_I  OSPF-Auth  Self-Test  Self-Test  OSPF-Auth  Self-Test  Self-Test  Self-Test  OSPF-Ext  Self-Test  Self-Test

### **Router Capabilities**

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

		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

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. *_C		Multicast_R1v1. *_I		
-	ECN	Self-Test		Self-Test		
PASS	Link = Ethernet	Self-Test	Self Declaration	Self-Test	Self Declaration	

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

# **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		INTEROPERABILI		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	INTEROPERABILIT	Y/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.
ı	CONTACT INFORMATION	Accredited laboratory name, email and signature (digital recommended). Include printed name and date if wet link 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
	NOTES	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