	CLIDD		INFORMATION						
SUPPI	SUPP LIER NAME	Cisco Systems Inc.	SUPPLIER SIGNATURE						
	LIER CONTACT EMAIL	•	Usulu fanburana	6/9/2023					
SUPPL	ACCREDITED L	ascummin@cisco.com	ACCREDITED LABORATORY SIGN	JATURE					
LABO	RATORY NAME	UNH InterOperability Laborator		THORE					
	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed	Act I Alexander	6/12/2023					
LABOI	[2] PRODUCT VE		[3] PRODUCT ID						
	IOS-XI		Cisco Catalyst ESS9300 Embedded	Series Switch					
[4] PRODUCT FAMILY									
	APPLICABLE SER	IES HARDWARE	APPLICABLE SERIES SOFTWA	ARE					
ESS-	-9300-10X-E		IOS-XE 17.9						
			COMPOSITE SDOC						
	<b>nitary</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.	Cisco Catalyst ESS9300 Embedded Series Switch /IOS-XE 17.9	JSGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet	i					
		[7] USGV6-CAPAE	SLE REQUIREMENTS						
□U:	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router		ıpable-NPP					
			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 an	I 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 no	this product is t support 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				
[44]	CADABILITY	OONEOR	MANOF	INTEROPERABLE	ITV/FUNCTIONAL NOTEC				
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RESULT ID	INTEROPERABILI TEST SELECTION	RESULT ID	NOTES			
-	IPv6-ONLY	SEESHON		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**

_	Happy-Eyeballs	Self-Test	Self-Test		
	mappy Lyonamo	Addr-	Addr-		
-	Addr-Arch	Arch_R1v1.*_C	Arch_R1v1.*_I		
-	CGA	Self-Test	Self-Test		
-	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	f-Test		
-	XLAT	Self-Test	Self	f-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	Multica	est_R1v1 *_I		
-	ECN	Self-Test	Self	-Test		
-	Link =	Self-Test	Self	-Test		

### **Router Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
Cisco Catal	yst ESS9300	Embedded Se	eries Switch/I	OS-XE 17.9	USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet			
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RMANCE RESULT ID	INTEROPERABILITY/FUNCTIONAL TEST RESULT ID SELECTION		NOTES		
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/36387	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.		
PASS	Core	Core_R1v1.*_C	UNH-IOL/36382	Core_R1v1.*_I	UNH-IOL/36384	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/36382	SLAAC_R1v1.*_I	UNH-IOL/36384	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/36383	Addr- Arch_R1v1.*_I	UNH-IOL/36385	This SDoC pertains to the IPv6 stack for the following ports: switched ports.		
-	CGA	Self-Test		Self-Test				

### **Router Capabilities**

1					
DNS-Client	Self-Test		Self-Test		
URI	Self-Test		Self-Test		
NTP-Client	Self-Test				
NTP-Server					
DNS-Server	Self-Test		Self-Test		
DHCP-Server	Server_R1v1.*_C		Server_R1v1.*_I		
DHCP-Server- Ext					
DHCP-Relay	Relay_R1v1.*_C		Relay_R1v1.*_I		
OSPF				UNH-IOL/36386	This SDoC pertains to the IPv6 stack for the following ports: switched ports.
OSPF-IPsec	Self-Test				
OSPF-Auth	Self-Test		Auth_R1v1.*_I	UNH-IOL/36386	This SDoC pertains to the IPv6 stack for the following ports: switched ports.
OSPF-Ext					
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  NTP-Server  DNS-Server  DHCP-Server  DHCP-Server-Ext  DHCP-Relay  DHCP-Relay  DHCP-Relay  CSelf-Test  DHCP-Relay  CSPF-IPsec  OSPF-Auth  OSPF-Ext  OSPF-Trans  OSPF-Graceful  ISIS  IS-IS-Auth  Self-Test  Self-Test	URI  NTP-Client  Self-Test  NTP-Server  Self-Test  DNS-Server  DHCP-Server  DHCP-Server-Ext  DHCP-Relay  DHCP-Relay  Self-Test  OSPF  OSPF  OSPF-Auth  OSPF-Trans  OSPF-Graceful  ISIS  Self-Test  Self-Test	DNS-Client  URI  Self-Test  Self-Test  NTP-Client  NTP-Server  Self-Test  Self-Test  NTP-Server  DNS-Server  DHCP- DHCP-Server  Self-Test  DHCP- Server_R1v1.*_C  DHCP-Server-Ext  DHCP- Relay_R1v1.*_C  DHCP-Relay  Relay_R1v1.*_C  OSPF  Self-Test  OSPF-R1v1.*_I  OSPF  Self-Test  OSPF-Auth  OSPF-Auth  Self-Test  OSPF-Trans  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  DHCP-Server-Riv1.*_C  DHCP-Server-Ext  DHCP-Relay  DHCP- Relay_R1v1.*_C  DHCP-Relay  Self-Test  OSPF  OSPF  OSPF-Auth  Self-Test  OSPF-Auth  Self-Test  OSPF-Ext  OSPF-Trans  OSPF-Graceful  ISIS  Self-Test  Self-Test

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

### **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

	1	0.16 = 1	0 IC T 4	T		
-	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	
		Self-Test	Self-Test	
-	ECN	Jell-Test	oen rest	

# **Application Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY			
[11]	CAPABILITY	CONFORMANCE INTEROPERAB			LITY/FUNCTIONAL	NOTES		
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	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	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 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