	01100		INFORMATION					
CUDDI	SUPP LIER NAME		SUPPLIER SIGNATURE					
		Cisco Systems Inc.	Bocusigned by:  Usulue Panburana	6/8/2023				
SUPPI	LIER CONTACT EMAIL	ascummin@cisco.com	56CF075825FD467	IATUDE				
LARG	ACCREDITED L		ACCREDITED LABORATORY SIGN	IATURE				
	RATORY NAME	UNH InterOperability Laborator		6/8/2023				
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.ed	F0/4/3996FBF4E1					
	[2] PRODUCT VE	RSION TESTED	[3] PRODUCT ID					
	IOS-XI	E 17.9	Cisco ESR6300 Embedded Se	ries Router				
		[4] PROD	UCT FAMILY					
	APPLICABLE SER	RIES HARDWARE	APPLICABLE SERIES SOFTWA	ARE				
ESR	6300		IOS-XE 17.9					
		[5] UNITARY OR	COMPOSITE SDOC					
		apabilities of this product are	Composite: Some or all of the capabilities of	of this product				
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	OOI I EILIX	TRODUCT ID/OTACK ID	CAI ABILITI GOMMARTI	SDOC LINK				
i.	Cisco Systems Inc.	Cisco ESR6300 Embedded Series Router/IOS-XE 17.9	JSGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Etherner	i				
		[7] USGV6-CAPAE	BLE REQUIREMENTS					
U	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Ca	pable-NPP				
•	NUOT OR 500 007R 4 11		B) REFERENCED					
i. ii.	NIST SP 500-267Br1, U	SGV6 Profile						
11.		[9] SUPPLEMENT.	ARY ATTESTATIONS					
ХT	nis product is fully functiona	I in dual stack environments.	X This product is fully functional in IPv6 only e	environments.				
That is	s, no claimed capabilities a	re invalidated if this product is	That is, no claimed capabilities are invalidated if this product is					
	ted in a duai stack (IPvo an nis SDoC contains a capabi	d IPv4) network environment.		deployed in a network environment that does not support IPv4.				
unique	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					
	ed are documented, and ho hose reported are explained	w their IPv6 capabilities differ	function across the entire product family. The sp conformance and interoperability test results for					
		ω.	of an identified member of this product family are	e 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	RMANCE	INTEROPERABILI	TY/FUNCTIONAL	NOTES		
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID			
-	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	Sell-Test	3en-1est		
-	Addr-Arch	Addr- Arch_R1v1.*_C	Addr- 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-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		
Cisco E	SR6300 Emb	edded Series	Router/IOS->	KE 17.9	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/36591	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/36586	Core_R1v1.*_I	UNH-IOL/36588	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/36586	SLAAC_R1v1.*_I	UNH-IOL/36588	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/36587	Addr- Arch_R1v1.*_I	UNH-IOL/36589	This SDoC pertains to the IPv6 stack for the following ports: routed ports.	
-	CGA	Self-Test		Self-Test			

### Router Capabilities

		0.15 = 4		0.15 = 4		
_	DNS-Client	Self-Test		Self-Test		
		0.16 = 4		0 15 = 4		
-	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	s	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/36590	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/36590	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		

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

		Self-Test	BGP_R1v1.*_I	T T		
-	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	

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

### 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	

# **Application Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11] SUPPORTED CAPABILITY					LITY/FUNCTIONAL NOTES  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	INTEROPERABILIT	TY/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