	SUPP		NFORMATION SUPPLIER SIGNATURE				
SUPPI		Cisco Systems Inc.		ROBATORE			
SUPPI	LIER CONTACT EMAIL	ascummin@cisco.com	- Docusigned by: Ashulu panburana	5,	5/15/2023		
	ACCREDITED L	_		ORATORY SIGN	ATURE		
LABO	RATORY NAME	UNH InterOperability Laboratory	DocuSigned by:				
LABO	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu		5/	15/2023		
	[2] PRODUCT VE	<b>.</b>		ODUCT ID			
	IOS-XI	E 17.9	Cisco Embedded	Services 33	00 Series		
		[4] PRODU	JCT FAMILY				
	APPLICABLE SER	IES HARDWARE	APPLICABLE S	SERIES SOFTWA	RE		
	-3300-NCP, ESS-330 -3300-24T-NCP, ES\$		IOS-XE 17.9				
		[5] UNITARY OR (	COMPOSITE SDOC				
	<b>hitary</b> : All of the declared ca ssed by original test results	apabilities of this product are reported in this SDoC.	<b>Composite:</b> Some or all of are provided by the use and/or components that have their or relevant referenced SDoCs a linked.	or integration of unr wn unique SDoCs.	nodified All of the		
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMM	IARY	COMPOSITE SDOC LINK		
i.	Cisco Systems Inc.	Cisco Embedded Services 3300 Series /IOS-XE 17.9	SGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF	+OSPF-Auth+Link=Ethernet			
		[7] USGV6-CAPAB	LE REQUIREMENTS				
U	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch	USGv6-r1-Cap	able-NPP		
			) REFERENCED				
i. ii.	NIST SP 500-267Br1, U	SGV6 Profile					
11.		[9] SUPPLEMENTA	ARY ATTESTATIONS				
That is operation	s, no claimed capabilities ar ted in a dual stack (IPv6 an	l in dual stack environments. re invalidated if this product is d IPv4) network environment.	X This product is fully functional in IPv6 only environments. That is, no claimed capabilities are invalidated if this product is deployed in a network environment that does not support IPv4.				
unique covere	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	$\overline{\mathbf{X}}$ 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	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

Happy-Eyeballs	Self-Test	Self-Test	
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	
	Addr-Arch CGA DNS-Client URI NTP-Client NTP-Server DNS-Server DHCP-Server Ext DHCP-Relay IPsec IPsec-SHA-512 SSHV2 TLS	Happy-EyeballsAddr- Arch_R1v1.*_CAddr-ArchArch_R1v1.*_CCGASelf-TestDNS-ClientSelf-TestURISelf-TestNTP-ClientSelf-TestDNS-ServerSelf-TestDNS-ServerSelf-TestDHCP-ServerSelf-TestDHCP-ServerSelf-TestDHCP-RelayDHCP- Relay_R1v1.*_CIPsec-SHA-512IPsec-SHA- 512_R1v1.*_CIPsec-SHA-512Self-TestTLSSelf-TestTLS-1.3Self-Test	Happy-EyeballsAddr- Arch_R1v1.*_CAddr- Arch_R1v1.*_IAddr- Arch_R1v1.*_CAddr- Arch_R1v1.*_ICGASelf-TestSelf-TestDNS-ClientSelf-TestSelf-TestURISelf-TestSelf-TestNTP-ClientSelf-TestSelf-TestDNS-ServerSelf-TestSelf-TestDNS-ServerSelf-TestSelf-TestDHCP-ServerSelf-TestDHCP- Server_R1v1.*_CDHCP-ServerSelf-TestDHCP- Server_R1v1.*_IDHCP-RelayDHCP- Relay_R1v1.*_CDHCP- Relay_R1v1.*_IIPsec-SHA-512IPsec_SHA- S12_R1v1.*_CIPsec_SHA- S12_R1v1.*_ITLSSelf-TestSelf-TestTLS-1.3Self-TestSelf-Test

#### Host Capabilities

		Self-Test	Self-Test		
-	Tunneling-UDP				
		Self-Test	Self-Test		
-	XLAT				
		Self-Test	Self-Test		
-	NAT64				
	DNO(4	Self-Test	Self-Test		
-	DNS64				
		Self-Test	Self-Test		
-	SNMP				
	Tunnalina	Self-Test	Self-Test		
-	Tunneling				
		Self-Test	Self-Test		
-	DiffServ				
		Oalf Taat	0-15 74		
_	NETCONF	Self-Test	Self-Test		
-	NETOON				
		Self-Test	Self-Test		
-	SSM				
		Multicast P1v1	Multicast P1v1		
_	Multicast	Multicast_R1v1 .*_C	Multicast_R1v1 .*_I		
		Self-Test	Self-Test		
-	ECN				
		Self-Test	Self-Test		
-	Link =				

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
Cisco	Embedded S	ervices 3300	Series/IOS-XI	E 17.9	USGv6-r1:Router+Core+SLAAC+Addr-Arch+OSPF+OSPF-Auth+Link=Ethernet		
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOF TEST SELECTION	RMANCE RESULT ID	INTEROPERABIL TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/36381	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/36376	Core_R1v1.*_I	UNH-IOL/36378	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/36376	SLAAC_R1v1.*_I	UNH-IOL/36378	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/36377	Addr- Arch_R1v1.*_I	UNH-IOL/36379	This SDoC pertains to the IPv6 stack for the following ports: switched ports	
-	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		
PASS	OSPF	Self-Test	OSPF_R1v1.*_I	UNH-IOL/36380	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/36380	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		

		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		

-	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		CONFO TEST SELECTION	RMANCE RESULT ID	TEST SELECTION IPv6-	LITY/FUNCTIONAL RESULT ID	NOTES	
-	IPv6-ONLY App-Serv=			ONLY_R1v1.*_F APP- ONLY_R1v1.*_F			
-	Link =			Self-Test			

# NPP Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR	MANCE	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] SUPPORTED	CAPABILITY	CONFOR	MANCE RESULT ID	INTEROPERABILIT	RESULT ID			
CAPABILITY -	IPv6-ONLY	SELECTION		TEST SELECTION IPv6- ONLY_R1v1.*_F		NOTES		
-	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 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