	SUPP		INFORMATION SUPPLIER SIGNATURE				
SUPPL	IER NAME	Cisco Systems Inc.	DocuSigned by:				
SUPPL	LIER CONTACT EMAIL	ascummin@cisco.com	usule randurana	5/10/2023			
	ACCREDITED I		ACCREDITED LABORATORY SIGN	ATURE			
LABOI	RATORY NAME	UNH InterOperability Laboratory	/DocuSigned by:	(10 (2022			
LABOI	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Michayla Newcombe 5/	10/2023			
	[2] PRODUCT VE		[3] PRODUCT ID				
	IOS-X	E 17.9	IR8340-K9				
		[4] PRODI	JCT FAMILY				
	APPLICABLE SER	RIES HARDWARE	APPLICABLE SERIES SOFTWA	ARE			
	40, IR8140H, IR814 33, IR1835, IR1101	0H-P, IR1821, IR1831,	IOS XE 17.9				
		[5] UNITARY OR	COMPOSITE SDOC				
	<b>litary</b> : All of the declared ca ssed by original test results	apabilities of this product are reported in this SDoC.	Composite: Some or all of the capabilities of are provided by the use and/or integration of unicomponents that have their own unique SDoCs. relevant referenced SDoCs are identified in sect linked.	modified All of the			
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK			
i.	Cisco Systems Inc.	IR8340-K9/IOS-XE 17.9	JSGv6-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		pable-NPP			
	·	<u> </u>	) REFERENCED				
i.	NIST SP 500-267Br1, U	JSGv6 Profile					
ii.		[0] SLIDDLEMENT	ARV ATTESTATIONS				
That is	s, no claimed capabilities a	al in dual stack environments. re invalidated if this product is	X This product is fully functional in IPv6 only e That is, no claimed capabilities are invalidated if	That is, no claimed capabilities are invalidated if this product is			
Unique covere	nis SDoC contains a capab e IPv6 stack in the product.	If not, the stacks/ports not ow their IPv6 capabilities differ	deployed in a network environment that does not X All of the products listed in the product family implemented such that their capabilities are identifunction across the entire product family. The speconformance and interoperability test results for of an identified member of this product family are SDoC. The SDoC attests that these tested capability and unmodified for all the products eiter.	in section 4 are tical in form and ecific the capabilities provided in this pilities are			

# **Host Capabilities**

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY
[44]	CADADILITY	CONFOR	OMANICE.	INTEROPERABILI	TV/FUNCTIONAL	NOTES
[11] SUPPORTED CAPABILITY	CAPABILITY	CONFOR TEST SELECTION	RESULT ID	INTEROPERABILI' TEST SELECTION	RESULT ID	NOTES
-	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			
		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		
	IR834	40-K9/IOS-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	TEST SELECTION	ITY/FUNCTIONAL RESULT ID	NOTES	
NOTES	IPv6-ONLY			IPv6- ONLY_R1v1.*_F	UNH-IOL/36431	The DUT displayed IPv6 addresses with characters "a", "b", "c", "d", "e", and "f" in uppercase.	
PASS	Core	Core_R1v1.*_C	UNH-IOL/36426	Core_R1v1.*_I	UNH-IOL/36428	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/36426	SLAAC_R1v1.*_I	UNH-IOL/36428	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/36427	Addr- Arch_R1v1.*_I	UNH-IOL/36429	This SDoC pertains to the IPv6 stack for the following ports: routed 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/36430	This SDoC pertains to the IPv6 stack for the following ports: routed ports
OSPF-IPsec	Self-Test		Self-Test		
OSPF-Auth	Self-Test		OSPF- Auth_R1v1.*_I	UNH-IOL/36430	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		
	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  Cospf  Self-Test  Self-Test	URI  NTP-Client  NTP-Client  Self-Test  NTP-Server  DNS-Server  DHCP-Server  DHCP-Server-Ext  DHCP-Relay  DHCP-Relay  DHCP-Relay  Self-Test  OSPF  OSPF-IPsec  OSPF-Auth  OSPF-Trans  OSPF-Trans  OSPF-Graceful  ISIS  IS-IS-Auth  Self-Test  Self-Test	DNS-Client  URI  Self-Test  Self-Test  NTP-Client  NTP-Server  Self-Test  DNS-Server  DHCP- DHCP-Server  DHCP-Server-R1v1.*_C  DHCP-Server-R1v1.*_C  DHCP-Relay  DHCP- Relay_R1v1.*_C  DHCP-Relay  Relay_R1v1.*_C  OSPF  Self-Test  Self-Test  OSPF-Auth  OSPF-Auth  Self-Test  Self-Test	DNS-Client  URI  Self-Test  Self-Test  Self-Test  NTP-Client  Self-Test  Self-Test  DNS-Server  DHCP- BHCP-Server  Self-Test  DHCP- BHCP-Server-R1v1.*_C  DHCP-Relay  DHCP- Relay_R1v1.*_C  OSPF  OSPF  Self-Test  OSPF-R1v1.*_I  OSPF-R1v1.*_I  UNH-IOL/36430  OSPF-Auth  Self-Test  OSPF-Ext  OSPF-Ext  Self-Test  Self-Test

### **Router Capabilities**

-	BGP	Self-Test	BGP_R1v1.*_I	
-	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			
6PE	Self-Test	Self-Test		
LISP				
SNMP				
Tunneling				
DiffServ	Self-Test	Self-Test		
NETCONF	Self-Test	Self-Test		
SSM	Self-Test	Self-Test		
	Tunneling-IP  Tunneling-UDP  GRE  DS-Lite  LW4over6  MAP-E  MAP-T  XLAT  NAT64  DNS64  6PE  LISP  SNMP  Tunneling  DiffServ  NETCONF	Tunneling-IP  Tunneling-UDP  GRE  DS-Lite  LW4over6  MAP-E  MAP-T  XLAT  NAT64  DNS64  GPE  LISP  Self-Test  Self-Test	TLS-1.3  Tunneling-IP  Self-Test  Self-Test  Tunneling-UDP  Self-Test  Self-Test  Self-Test  DS-Lite  Self-Test  Self-Test  Self-Test  Self-Test  MAP-E  MAP-E  MAP-T  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  NAT64  Self-Test  Self-Test	TUNNeling-IP  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  DS-Lite  Self-Test  Self-Test  Self-Test  Self-Test  MAP-E  Self-Test  Self-Test  Self-Test  MAP-T  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  NAT64  Self-Test  DNS64  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	

# **Application Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONEO	RMANCE	INTEROPERABII	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	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.  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