Supplie	ers Declara	tion of Confe	ormity for USGv6 Prod	lucts		USGv6-v1 SDOC-v1.10 Page 1						
1	The Docu	ment Requir	ing Conformity:			USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)						
2	Product Identifier: C9500-16X											
3 Supplier's Name, Address and SDOC Contact Details												
Cisco Systems, Inc.												
170 West Tasman Dr.												
	San Jose, CA 95134 USA											
4	4 Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested. IOS XE 16.12											
	IUS XE 16.12											
5												
	C9500-12Q, C9500-24Q, C9500-40X, C9500-32C, C9500-32QC, C9500-24Y4C, C9500-48Y4C											
6	6 USGv6 Capability summary. (For each distinct IPv6 stack in the product provide a summary of its USGv6 capabilities below and include a detailed test result											
	summary).	. e.g. exampi		<i>v6-v1-Host: IPv6-Base+Addr-Arch+II</i> 1-Router: IPv6-Base+Addr-Arch+S								
			U5GV6-V	1-Router: IPV6-Base+Addr-Arch+S	LAAC+IGW+	-EGW+Wicas	ST+LINK = Etnernet					
7	Self Conta	Self Contained or Composite SDOC? (Must indicate one).										
YES	All of the dec	lared USGv6 cap	pabilities of this product are	Some or all of the USGv6 cap	pabilities of this p	product are prov	rided by the use and/or integration of umodified components that have their own un					
	addressed by	orginal test resu	ılts reported in this SDOC.				lentified in section 8 and attached. This product's page 2 will indicate which capabi					
				are provided by specific refer	enced compone	nts (product-id/s	stack-id).					
8	Additiona	I Declaration	s / Attachments: (List	t supplier & product-id/stack-id for ret	erenced and	attached tes	et results in the case of composite products).					
	Compone	nt Supplier	<u></u>	Product ID:	Stack ID:		Notes:					
[1]	Compone	псоприот		i roddoris.	Otdok ID.		110100.					
[2]												
[3]												
[4]												
9	Suppleme	ntary Attest	ations (Answer all).									
	Yes		•	environments.That is, no claimed capabilities a	are Yes		s fully functional in IPv6 only environments. That is, no claimed capabilities are					
		invalidated ifth	is product is operated in a dua	al stack (6 and 4)network environment.		invalidated if this product is deployed in a network environment that does no						
	Yes	This SDOC co.	ntains a capabilities test repo	rt for each unique IPv6 stack in the product. If	^{no} Yes	All of the prod	lucts listed in the product family in section 5 are implemented such that their USGv6					
	103	stacks/ports no	ot covered are documented, a	nd how their Ipv6 capabilities differ from those		capabilities are identical in form and function across the entire product family. The specific						
		reported are ex	rplained.	rmance and interoperability test results for the USGv6 capabilities of an identified member of								
						this product family are provided in this SDOC. The SDOC attests that these capabilities are identical and unmodified for all the products cited above.						
		ļ.,,										
10	Signature Ashles Pa			ankunana.	Date	April 17th, 2020						
	Print Name / Title Ashlee Panburana, IPv6											
				na, ir vo i calli Leau								
See instru	ıctions for field	s 1-12 on Page	1.									

11		ers Declaration of Conformity for USGv6 Pro	uucts: Deciared	u capab			Results Summary			SGv6-v1 SDOC-v1.10 Pag			
roduct Id	l:	C9500-16X Stack Id:						IOS XE 16.12					
			Context /	Suppo	rted Capa	bilities		USGv6 Testing	Program Results				
Spec /			Configuration				Test Suite	Test Lab / Result ID, Note #, or		Test Lab / Result ID, Note #, o			
eference	Section	USGv6-v1 Profile Requirements	Option	Host	Router	NPD	Conformance/NPD	Component Ref	Test Suite Interoperability	Component Ref			
500-267	6.1	IPv6 Basic Requirements											
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base		Р		Basic_v1.*_C	UNH-IOL/31655	Basic_V1.*_I	UNH-IOL/31657			
		support of PMTU Discovery Protocol requirements	PMTU		P		Basic_v1.*_C	UNH-IOL/31655	Basic_V1.*_I	UNH-IOL/31657			
		support of stateless address auto-configuration	SLAAC		P P		SLAAC-V1.*_C	UNH-IOL/31655	SLAAC-V1.*_I	UNH-IOL/31657 UNH-IOL/31657			
		support of Creation of Global Addresses support of SLAAC privacy extensions.	SLAAC - c(M) PrivAddr		Р		SLAAC-V1.*_C Self Test	UNH-IOL/31655	SLAAC-V1.*_I Self Test	UNH-IUL/31657			
		support of SLAAC privacy extensions. support of stateful (DHCP) address auto-	DHCP-Client				DHCP Client v1.* C		DHCP Client v1.* I	+			
		support of stateful (DHCF) address auto- support of automated router prefix delegation	DHCP-Client DHCP-Prefix				Self Test		Self Test				
		support of automated router prefix delegation support of neighbor discovery security extensions	SEND				Self Test		Self Test				
500-267	6.6	Addressing Requirements	CENT				3011 7000		30,1700.				
000-201	0.0	support of addressing architecture regts	Addr-Arch		Р		Addr Arch v1.* C	UNH-IOL/31656	Addr Arch v1.* I	UNH-IOL/31658			
		support of addressing architecture required support of cryptographically generated addresses	CGA		Р		Self Test	UNH-IOL/3 1636	Self Test	UNH-IUL/3 1636			
500-267	6.7	IP Security Requirements	CGA				Sell Test		Sell Test				
300-207	0.7	support of the IP security architecture	IPsecv3				IPsecv3 v1.* C		IPsecv3 v1.* I				
	1	support of the IP security architecture support for automated key management	IKEv2			1	IKEv2 v1.* C	 	IKEv2_v2.*_I	1			
	1	support for automated key management support for encapsulating security payloads in IP	ESP				ESPv3 v1.* C		ESP v1.* I	İ			
500-267	6.11	Application Requirements											
		support of DNS client/resolver functions	DNS-Client				Self Test		Self Test				
		support of Socket application program interfaces	SOCK				Self Test		Self Test				
		support of IPv6 uniform resource identifiers	URI				Self Test		Self Test				
		support of a DNS server application	DNS-Server				Self Test		Self Test				
		support of a DHCP server application	DHCP-Server				Self Test		DHCP_Serv_v1.*_I				
500-267	6.2	Routing Protocol Requirements											
		support of the intra-domain (interior) routing protocols	IGW		Р		Self Test		OSPFv3_v1.*_I	UNH-IOL/31654			
		support for inter-domain (exterior) routing protocols	EGW		Р		Self Test		BGP_v1.*_I	UNH-IOL/31653			
500-267	6.4	Transition Mechanism Requirements											
		support of interoperation with IPv4-only systems	IPv4				Self Test		Self Test				
		support of tunneling IPv6 over IPv4 MPLS services	6PE				Self Test		Self Test				
500-267	6.8	Network Management Requirements							Self Test				
		support of network management services	SNMP				Self Test		Self Test				
500-267	6.9	Multicast Requirements					0.45						
		support of basic multicast	Mcast		Р	-	Self Test	Self declaration	0.47				
500-267	C 40	full support of multicast communications Mobility Requirements	SSM				Self Test		Self Test				
200-207	0.10	support of mobile IP capability.	MIP				Self Test		Self Test				
		support of mobile network capabilities	NEMO				Self Test		Self Test				
500-267	6.3	Quality of Service Requirements	INLINIO				Sell Test		Sell Test				
300-201	0.5	support of Differentiated Services capabilities	DS				Self Test		Self Test				
500-267	6.12	Network Protection Device Requirements	ВО				OCH TEST		CCII TCSI				
000-201	0.12	support of common NPD regts	NPD				N1 N2 N3 N4_v1.3						
	1	support of common NPD required support of basic firewall capabilities	FW				N1 FW v1.3	-	+	+			
	-	support of basic inewall capabilities	APFW			l	Self Test	<u> </u>		 			
	-	support of application filewall capabilities	IDS			 	N3 IDS v1.3	<u> </u>		 			
	1	support of intrusion protection capabilities	IPS				N4 IPS v1.3						
500-267	6.5	Link Specific Technologies	_										
		support of robust packet compression services	ROHC				Self Test		Self Test				
	1	support of link technology [O:1]			Р		Self Test	Self Declaration	Self Test	Self Declaration			
	<u></u>												
		(repeat as needed) support of link technology	Link=										
12		< Check HERE if this stack's DOC includes	additional infor	mation a	about te	sted cap	pabilities and options	on an attached page 3 of note	s.				
_evel	Level of	support for USGv6-v1 Requirements for capability.				Color	Indication of USGv6-v1 Recommended Level of Support for device type / stack role.						
Р		nk - SDOC makes no declaration for this capability. sed required tests of USGv6-V1 requirements for these capabilities.					Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile. Indicates cabability that is unusal for a given device type / stack role. Do not select without careful analysis.						
		equired tests of USGv6-V1 requirements for these capabilities. s page for details on the level of support of USGv6-v1 reequirements for this capability.											
N			1.		Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.								
Х	USGv6	capability not supported in product.											
							•						
		JSGv6 Test suite used for test. See: http://www.antd.nist			.html					ability or result on attached page			
	anult ID	Abbreviation of accredited laboratory and its local identif	ier for this test resul	t.			Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.						

Suppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary										USGv	6-v1 SDOC-v1.10 Page 3
Field	Product Id:										
13				Context /	Supported Capabilities				Notes about USG	Notes about USGv6-v1 Capabilities.	
Note #	Spec / Reference	Section	USGv6-v1 Profile Requirements	Configuration Option	Host	Router	NPD	Test Suite Conformance/NPD	Test Lab / Result ID, Note	Test Suite Interoperability	Test Lab / Result ID, Note
	recording	Occion	55575-777 Tonic Requirements	Option	11031	Router	INI D	Comormance/Ar B	rest Lub / Result Ib, Note	interoperability	rest Lab / Nesult ID, Note
1											
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9											
Discussion	:										
10											
Discussion:											
Vendor's General Notes / Discussion about this Product / Stack's capabilities:											

Signature Block: Wet ink signature of the responsible product manager, dated.

Printed name and position title on the line below.

10

General: This document describes network product from the identified supplier that claims support of USGv6 capabilities. General product and supplier identification is given on Page 1. Overall results of testing USGv6 capabilities for conformance, interoperability and network protection are given on Page 2. Detailed instructions for completing and interpreting each numbered field are given below. Note USGv6 Testing website at: http://www.antd.nist.gov/usgv6/testing.html. Contact: usgv6-project@antd.nist.gov.

Field Field Description and Instructions **Description and Instructions** The Document Requiring Conformity Identifies the profile version implemented. Summary of Results: The format of this table mirrors the USGv6-v1.0 capabilities 1 11 checklist (USGv6 Profile, Appendix A). The 12 categories of USGv6 capabilities are Not a user completable field. listed as subheadings, with subsidiary functions as line items. Configuration options related to conditional implementation of selected capabilities. Product Identifier: Supplier's concise name for the product declared. Product Id/Stack Id: The identification line of this page includes space for Product Id and Stack Id labels. Product Id is the same as given on Page 1. As there may be more than one unique IPv6 stack implemented in the product, the Stack Id field identifies the particular stack described. One Results Summary page per stack is required. Suppliers Name, Address and Contact Details: Company name and point of Host, Router and Network Protection (NPD) columns identify 'preferred' options: cells in green represent the NIST recommendations. Cells in grey denote atypical options, contact for SDOC questions, street address, phone and email. very unlikely to be implemented. The procuring Agency may additionally tailor these fields to indicate requirements for this acquisition. Product as Tested/Declared: Product Identifier and detailed version information. Test Suite Conformance and Interoperability columns identify capability sets for If this SDOC reports oringal test results (page 2), include information about the which a public test suite exists, and the versions applicable to USGv6-v1.0 test results. Major version v1 and all its minor versions are deemed acceptable. Over specific product configuration(s) that was actually tested (e.g., hardware time, new versions will be added and older ones retired. There may be periods when configuration, operating system, etc). more than one major version is acceptable concurrently. Product Family: A list of other products that use the same, unmodified IPv6 The supplier completes the adjacent Test Lab and Result Id column with the test lab acronym and unique result identifier (See Test Lab and Accreditor page on the stacks such that their USGv6 capabilities are identical in form and function to the specific product configuration above. Test labs are only required to affirm Website). The buyer may opt to guery results with the test laboratory using the the results for specific products tested. Test labs optionally may affirm specified Result Id(s). The supplier may opt to provide particular explanation of some recognized product families. results (partial results, additional options) in which case reference to note on an attached page 3. (e.g. "See Note# N"). See the USGv6 testing website to identify the test lab. and find contact details. USGv6 Capability Summary: The USGv6 stack implementation summary as Cells marked Self Test have no associated public test suite. If implemented by the identified by the '+' notation described in the USGv6 profile, Appendix A. For supplier, the required adjacent annotation is " Self Declaration". Note that vendors each IPv6 stack implementation in the product, a distinct Stack Id and reference declaring support for such a capability are declaring support for the associated to the attached Results Summary page (Page 2). specific requirements in the USGv6 Profile. Self Contained or Composite SDOC If this SDOC relies on the test results of Additional Options Tested Vendor checks if it is desired to record tested options not other disinct products, list the Supplier & Product ID/Stack IDs referenced and part of the 'Musts' in the profile. Explanations on the page following the results attach those original SDOCs to this one. summary. Headings and Special Notations as described. Additional Declarations / Attachements: List the supplier / product ID / Stack Options for Test Lab and Result Id: Currently 3 cases: (1) the test lab acronym and ID of any test results of composite components referenced by this SDOC. alphanumeric Id of the result set as assigned by the test laboratory; (2) 'Self declaration' denoting the supplier attests to adequate QA testing of the capability; (3) See attachment or note 'N', where the supplier explains variations in greater detail. Supplementary Attestations: Suppliers disclosure of IPv6 only capabilities; multiple stacks present; product family applicabilities. These are not included to qualify or disqualify a product from purchase considerations, but to inform Stack-1 Notes Instructions: The supplier may choose to use the Notes (page 3) in order to clarify unsupported features or non passing results. Each Note # must network administrators of potential configuration options relevant to USGv6 interoperability. Check all that apply.

reference the same Note # from Page 2.

Complete the Note by including the Spec/Reference and Section (i.e. RFC or USGv6 Profile version), USGv6-v1 Profile Requirements, Config Option (i.e. IPv6-Base), choosing Host/Router/NPD, and Test Selection table version along with Test Lab Result ID. The Discussion includes details about the test result that will be disclosed to the buyer.

Further Description: http://www.antd.nist.gov/usgv6/testing.html, and NIST SP 500-267 USGv6 Testing Program Users Guide available at the website.