Supplie	ers Declaration	of Conformity for	or USGv6 Pro	ducts			USGv6-v1 SDOC-v1.10 Page 1				
1	The Document Requiring Conformity:						USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)				
2	Product Ident	ifier:					Cisco 4461 ISR				
3	3 Supplier's Name, Address and SDOC Contact Details										
	Cisco Systems, Inc.										
	170 West Tasman Dr.										
San Jo	San Jose, CA 95134 USA										
4	<b>J</b>										
	IOS XE 16.12.1										
	I										
5								Check Product Family attestation below.			
	C	Cisco 4461 ISR, C	cisco VG450, (	Cisco 4451-X ISR, Cis	sco 4431 ISR, (	Cisco 4351	ISR, Cisco 4	1331 ISR, Cisco 4321 ISR, Cisco 4221 ISR			
6	USGv6 Capak	oility summary.	(For each disti	nct IPv6 stack in the	product provide	e a summar	y of its USG	v6 capabilities below and include a detailed test result			
	summary). e.g	g. example-prod-i		Gv6-v1-Host: IPv6-Ba							
			USGv6v1	-Router: IPv6-Base	+Addr-Arch+SL	-AAC+Mcas	t+IGW+EG\	N+Link = Ethernet			
	I										
7	Self Contained or Composite SDOC? (Must indicate one).										
YES		JSGv6 capabilities of thi	•					d by the use and/or integration of umodified components that have their own unique			
	addressed by orginal test results reported in this SDOC.  USGv6 SDOCs. All of the relevant referenced SDOCs are identified in section 8 and attached. This product's page 2 will indicate which capabilities are provided by specific referenced components (product-id/stack-id).										
				a c providor	a by specific reference	oca componente	(product rastac	n idj.			
8	Additional De	clarations / Attac	chments: (List	supplier & product-ic	d/stack-id for ref	ferenced ar	nd attached	test results in the case of composite products).			
	Component S			Product ID:	Stack ID:		Notes:				
[1]		шрро.									
[2]											
[3]											
[4]											
9	Supplementa	ry Attestations (A	Answer all)								
		• •		vironments That is, no claims	ad canabilities are	Yes	This product is	s fully functional in IPv6 only environments. That is, no claimed capabilities are			
	This product is fully functional in dual stack environments. That is, no claimed capabilities are invalidated ifthis product is operated in a dual stack (6 and 4) network environment.							nis product is deployed in a network environment that does not support Ipv4.			
				. ,							
				or each unique IPv6 stack in		Yes	All of the products listed in the product family in section 5 are implemented such that their USGv6				
		cks/ports not covered an orted are explained.	e documented, and l	how their lpv6 capabilities dit	ffer from those		capabilities are identical in form and function across the entire product family. The specific conformance and interoperability test results for the USGv6 capabilities of an identified member of				
	Τθρ	л теа аге ехргаттеа.						mily are provided in this SDOC. The SDOC attests that these tested USGv6			
								identical and unmodified for all the products cited above.			
		1 .		,							
10	Signature Ashler Panburana					Date	January 23, 2020				
	Print Name / Ti	-		na, IPv6 Team	Load	1					
		ASIIIC	c ranbuia	iia, ir vo i talli i	Leau						
See instru	ctions for fields 1-12	on Page 4.									

		ers Declaration of Conformity for USGv6 Pro	aucts: Declared	Capab			Results Summary	•		Gv6-v1 SDOC-v1.10 Pag			
roduct ld:		Cisco 4461 ISR Stack Id:						IOS XE 16.12.1					
			Context /	Suppo	rted Capa	bilities		USGv6 Testing P	rogram Results				
Spec /			Configuration				Test Suite	Test Lab / Result ID, Note #, or		Test Lab / Result ID, Note #,			
	Section	USGv6-v1 Profile Requirements	Option	Host	Router	NPD	Conformance/NPD	Component Ref	Test Suite Interoperability	Component Ref			
2500-267	6.1	IPv6 Basic Requirements											
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base		Р		Basic_v1.*_C	UNH-IOL/30982		UNH-IOL/30984			
		support of PMTU Discovery Protocol requirements	PMTU		Р		Basic_v1.*_C	UNH-IOL/30982	Basic_V1.*_I	UNH-IOL/30984			
		support of stateless address auto-configuration	SLAAC		Р		SLAAC-V1.*_C	UNH-IOL/30982	SLAAC-V1.*_I	UNH-IOL/30984			
		support of Creation of Global Addresses	SLAAC - c(M)		P		SLAAC-V1.*_C	UNH-IOL/30982	SLAAC-V1.*_I	UNH-IOL/30984			
		support of SLAAC privacy extensions.	PrivAddr				Self Test		Self Test				
		support of stateful (DHCP) address auto-	DHCP-Client				DHCP_Client_v1.*_C		DHCP_Client_v1.*_I				
		support of automated router prefix delegation	DHCP-Prefix				Self Test		Self Test				
		support of neighbor discovery security extensions	SEND				Self Test		Self Test				
500-267	6.6	Addressing Requirements											
		support of addressing architecture reqts	Addr-Arch		Р		Addr_Arch_v1.*_C	UNH-IOL/30983	Addr_Arch_v1.*_I	UNH-IOL/30985			
		support of cryptographically generated addresses	CGA				Self Test		Self Test				
2500-267	6.7	IP Security Requirements											
		support of the IP security architecture	IPsecv3			<b></b>	IPsecv3_v1.*_C	ļ	IPsecv3_v1.*_I				
		support for automated key management	IKEv2			<b></b>	IKEv2_v1.*_C	<del> </del>	IKEv2_v2.*_I				
2500 007	0.44	support for encapsulating security payloads in IP	ESP			_	ESPv3_v1.*_C		ESP_v1.*_I				
2500-267	6.11	Application Requirements	DNIC OF T				O-K.T. /		C-# T				
		support of DNS client/resolver functions	DNS-Client			<b>├</b> ──	Self Test	<del> </del>	Self Test				
		support of Socket application program interfaces	SOCK				Self Test		Self Test				
		support of IPv6 uniform resource identifiers support of a DNS server application	URI DNS-Server				Self Test Self Test		Self Test Self Test				
		support of a DNS server application	DHCP-Server				Self Test		DHCP_Serv_v1.*_I				
2500 007	6.2		DHCP-Server				Sell Test		DHCP_Serv_V1."_I				
500-267	6.2	Routing Protocol Requirements	ICW/		P		C = 16 T = =4		OSPFv3 v1.* I	UNH-IOL/30981			
		support of the intra-domain (interior) routing protocols support for inter-domain (exterior) routing protocols	IGW EGW		P		Self Test Self Test		BGP v1.* I	UNH-IOL/30980			
2500-267	6.4	Transition Mechanism Requirements	EGW				Sell Test		BGF_VII	UNH-IOL/30980			
300-201	0.4	support of interoperation with IPv4-only systems	IPv4				Self Test		Self Test				
		support of funneling IPv6 over IPv4 MPLS services	6PE				Self Test		Self Test				
2500-267	6.8	Network Management Requirements	01 L				Gen rest		Self Test				
300-201	0.0	support of network management services	SNMP				Self Test		Self Test				
2500-267	6.9	Multicast Requirements	O. t.i.ii				00# 1000		3011 1001				
000 201	0.0	support of basic multicast	Mcast		Р		Self Test	Self Declaration					
		full support of multicast communications	SSM				Self Test		Self Test				
2500-267	6.10	Mobility Requirements											
		support of mobile IP capability.	MIP				Self Test		Self Test				
		support of mobile network capabilities	NEMO				Self Test		Self Test				
2500-267	6.3	Quality of Service Requirements											
		support of Differentiated Services capabilities	DS				Self Test		Self Test				
500-267	6.12	Network Protection Device Requirements											
		support of common NPD regts	NPD				N1 N2 N3 N4 v1.3						
		support of basic firewall capabilities	FW				N1_FW_v1.3	İ					
		support of application firewall capabilities	APFW				Self Test	İ					
		support of intrusion detection capabilities	IDS				N3_IDS_v1.3						
		support of intrusion protection capabilities	IPS				N4_IPS_v1.3						
P500-267	6.5	Link Specific Technologies											
		support of robust packet compression services	ROHC				Self Test		Self Test				
		support of link technology [O:1]	Link=Ethemet		Р		Self Test	Self Declaration	Self Test	Self Declaration			
		(repeat as needed) support of link technology	Link=					1					
12		< Check HERE if this stack's DOC includes	additional inforr	nation a	bout tes	ted cap	abilities and options o	n an attached page 3 of notes.					
Level	l evel o	f support for USGv6-v1 Requirements for capability.				Color	Indicat	ion of USGv6-v1 Recommended Lev	rel of Support for device to	/ne / stack role			
Р													
		assed required tests of USGv6-V1 requirements for these capabilities.											
N	See notes page for details on the level of support of USGv6-v1 reequirements for this capability.						Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.						
Χ	USGv6	capability not supported in product.											
		USGv6 Test suite used for test. See: http://www.antd.n			ions.html		Note # - reference to a detailed note about this capability or result on attached page						
		<ul> <li>Abbreviation of accredited laboratory and its local ider</li> </ul>	tifier for this tost ro	oult			C	f - Supplier / Product / Stack ID of dist	inathy tootad companiont the	t provides this senshility			

Suppliers	uppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary  USGv6-v1.10 Page 3										
Field											
13				Context /	Supported Capabilities				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
									, , , , , , , , , , , , , , , , , , , ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
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Discussion	1.										
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Discussion	1:										
10											
Discussion:											
Vendor's General Notes / Discussion about this Product / Stack's capabilities:											
											-

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	ote USGv6 Testing website at: http://www.antd.nist.gov/usgv6/testing.html. Contac  Description and Instructions	Field	Description and Instructions
1	The Document Requiring Conformity: Identifies the profile version implemented. Not a user completable field.	11	Summary of Results: The format of this table mirrors the USGv6-v1.0 capabilities checklist (USGv6 Profile, Appendix A). The 12 categories of USGv6 capabilities are listed as subheadings, with subsidiary functions as line items. Configuration options related to conditional implementation of selected capabilities.
2	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.
3	Suppliers Name, Address and Contact Details: Company name and point of contact for SDOC questions, street address, phone and email.		Host, Router and Network Protection (NPD) columns identify 'preferred' options: cells in green represent the NIST recommendations. Cells in grey denote atypical options, very unlikely to be implemented. The procuring Agency may additionally tailor these fields to indicate requirements for this acquisition.
4	<b>Product as Tested/Declared</b> : Product Identifier and detailed version information. If this SDOC reports oringal test results (page 2), include information about the specific product configuration(s) that was actually tested (e.g., hardware configuration, operating system, etc).		<b>Test Suite Conformance and Interoperability</b> columns identify capability sets for 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 time, new versions will be added and older ones retired. There may be periods when more than one major version is acceptable concurrently.
5	<b>Product Family</b> : A list of other products that use the same, unmodified IPv6 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 the results for specific products tested. Test labs optionally may affirm recognized product families.		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 Website). The buyer may opt to query results with the test laboratory using the specified Result Id(s). The supplier may opt to provide particular explanation of some 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.
6	USGv6 Capability Summary: The USGv6 stack implementation summary as identified by the '+' notation described in the USGv6 profile, Appendix A. For each IPv6 stack implementation in the product, a distinct Stack Id and reference to the attached Results Summary page (Page 2).		Cells marked <b>Self Test</b> have no associated public test suite. If implemented by the supplier, the required adjacent annotation is "Self Declaration". Note that vendors declaring support for such a capability are declaring support for the associated specific requirements in the USGv6 Profile.
7	<b>Self Contained or Composite SDOC</b> : If this SDOC relies on the test results of other disinct products, list the Supplier & Product ID/Stack IDs referenced and attach those original SDOCs to this one.	12	Additional Options Tested: Vendor checks if it is desired to record tested options not part of the 'Musts' in the profile. Explanations on the page following the results summary.  Headings and Special Notations: as described.
8	Additional Declarations / Attachements: List the supplier / product ID / Stack ID of any test results of composite components referenced by this SDOC.		Options for Test Lab and Result Id: Currently 3 cases: (1) the test lab acronym and 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.
9	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 network administrators of potential configuration options relevant to USGv6 interoperability. Check all that apply.	13	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 reference the same Note # from Page 2.
10	Signature Block: Wet ink signature of the responsible product manager, dated. Printed name and position title on the line below.		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

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

to the buyer.