Supplie	ers Declaratio	on of Confe	ormity for U	SGv6 Prod	ucts			USGv6-v1 SDOC-v1.10 Page 1				
1								USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)				
2	2 Product Identifier: C1000-48T-4X								Т-4Х			
3	Supplier's Name, Address and SDOC Contact Details											
	Cisco Systems, Inc.											
	170 West Tasman Dr.											
San Jos	n Jose, CA 95134 USA											
4	Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested.											
	IOS 15.2											
						o which these results are			Check Product Family attestation below.			
	,	,		,	,	,	,	,	21000-16T-E-2G, C1000-16P-2G, C1000-16P-E-2G, C1000-			
16FP-2	16FP-2G, C1000-24T-4G, C1000-24P-4G, C1000-24FP-4G, C1000-48T-4G, C1000-48FP-4G, C1000-24T-4X, C1000-24P-4X, C1000-24FP-4X, C1000-48T- 4X, C1000-48P-4X, C1000-48FP-4X											
6		-				k in the product provide a Pv6-Base+Addr-Arch+IP	-		capabilities below and include a detailed test result ink=Ethernet.			
		<u> </u>	-		USGv6-v1-	Host: IPv6-Base+Addr-	Arch+SLA/	AC+Link = E	thernet			
7	Self Contained or Composite SDOC? (Must indicate one).											
YES	YES addressed by orginal test results reported in this SDOC. Some or all of the USGv6 capabilities of this product are provided by the use and/or integration and att are provided by specific referenced SDOCs are identified in section 8 and att are provided by specific referenced components (product-id/stack-id).							lentified in section 8 and attached. This product's page 2 will indicate which capabi				
8	Additional D	Declaration	ns / Attachm	ents: (List	supplier & p	roduct-id/stack-id for refe	erenced and	attached tes	st results in the case of composite products).			
	Component	Supplier			Product ID	:	Stack ID:		Notes:			
[1]												
[2]												
[3]												
[4]												
9												
	Yes This product is fully functional in dual stack environments. That is, no claimed capabilities a invalidated ifthis product is operated in a dual stack (6 and 4) network environment.						^{re} Yes	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.				
	s	Yes This SDOC contains a capabilities test report for each unique IPv6 stack in the product. If stacks/ports not covered are documented, and how their Ipv6 capabilities differ from those reported are explained.					^d Yes Date	capabilities ar conformance this product fa	All of the products listed in the product family in section 5 are implemented such that their USGv6 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 this product family are provided in this SDOC. The SDOC attests that these tested USGv6 capabilitiesare identical and unmodified for all the products cited above.			
10	Signature			Ashlee Panburana				March 3	30th, 2020			
	Print Name /			Panbura	na, IPv6	Team Lead						
See instru	ctions for fields 1	-12 on Page -	4.									

See instructions for fields 1-12 on Page 4.

roduct Id		ers Declaration of Conformity for USGv6 Pro C1000-48T-4X			Stack le				IOS 15.2		
Product Id:		C1000-481-4X					IUS 15.2				
			Context /	Suppo	rted Capa	bilities		USGv6 Testing F	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	
P500-267	6.1	IPv6 Basic Requirements		D			D		B		
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base	P			Basic_v1.*_C	UNH-IOL/31771	Basic_V1.*_I	UNH-IOL/31773	
		support of PMTU Discovery Protocol requirements support of stateless address auto-configuration	PMTU SLAAC	P			Basic_v1.*_C SLAAC-V1.* C	UNH-IOL/31771 UNH-IOL/31771	Basic_V1.*_I SLAAC-V1.* I	UNH-IOL/31773 UNH-IOL/31773	
		support of stateless address auto-configuration support of Creation of Global Addresses	SLAAC SLAAC - c(M)	P			SLAAC-V1.* C	UNH-IOL/31771	SLAAC-V1.* I	UNH-IOL/31773	
		support of SLAAC privacy extensions.	PrivAddr	r			Self Test	SNIFICE/STITT	Self Test	011-102/31/13	
		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		
P500-267	6.6	Addressing Requirements									
		support of addressing architecture regts	Addr-Arch	Р			Addr Arch v1.* C	UNH-IOL/31770	Addr Arch v1.* I	UNH-IOL/31772	
		support of cryptographically generated addresses	CGA				Self Test	SNIFICEBUILT	Self Test	GITTOEGTTTE	
P500-267	6.7	IP Security Requirements	00/1						00// 100		
200 201		support of the IP security architecture	IPsecv3				IPsecv3 v1.* C		IPsecv3 v1.* I		
-	1	support for automated key management	IKEv2				IKEv2 v1.* C	T	IKEv2 v2.* I	T	
		support for encapsulating security payloads in IP	ESP				ESPv3_v1.*_C		ESP_v1.*_I		
P500-267	6.11	Application Requirements									
-		support of DNS client/resolver functions	DNS-Client		1		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		
P500-267	6.2	Routing Protocol Requirements									
		support of the intra-domain (interior) routing protocols	IGW				Self Test		OSPFv3_v1.*_I		
		support for inter-domain (exterior) routing protocols	EGW				Self Test		BGP_v1.*_I		
P500-267	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		
P500-267	6.8	Network Management Requirements	ONIME				0.477.1		Self Test		
P500-267	6.9	support of network management services Multicast Requirements	SNMP				Self Test		Self Test		
-300-207	0.9	support of basic multicast	Mcast				Self Test				
		full support of multicast communications	SSM				Self Test		Self Test		
P500-267	6.10	Mobility Requirements	0011				och reat		Och Test		
000 201	0.10	support of mobile IP capability.	MIP				Self Test		Self Test		
		support of mobile network capabilities	NEMO				Self Test		Self Test		
P500-267	6.3	Quality of Service Requirements									
		support of Differentiated Services capabilities	DS				Self Test		Self Test		
P500-267	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		1		
	1	support of application firewall capabilities	APFW				Self Test	T	1	T	
	Î	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=Ethernet	Р			Self Test	Self Declaration	Self Test	Self Declaration	
	ļ										
			Link=	L	I			L	1	L	
12		< Check HERE if this stack's DOC includes	additional infor	mation	about te	sted cap	pabilities and options	on an attached page 3 of note	s.		
Level	Level of	support for USGv6-v1 Requirements for capability.		Color	Indication of USGv6-v1 Recommended Level of Support for device type / stack role.						
	Blank - S	SDOC makes no declaration for this capability.					Indicates capability that is r	ecommendend as mandatory (uncondi	tional MUST) in the USGv6-	/1 Profile.	
Р		required tests of USGv6-V1 requirements for these capat			Indicates cabability that is unusal for a given device type / stack role. Do not select without careful analysis.						
N		es page for details on the level of support of USGv6-v1 re	v		Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.						
X		capability not supported in product.	equirements for the	sapuolity			maloutos capability that is it	sit optional / containing by the recomm			
t Suite	Snecific I	SGv6 Test suite used for test. See: http://www.antd.nist	aov/usav6/test_spo	cifications	html			Note # - reference to a	detailed note about this car	ability or result on attached page	

Suppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary USGv6-v1 SDOC-v1.10 Page											
Field Product Id:											
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
Hote #		occuon	obovo-vri rome requirements	option	nost	Router		Comornance/Ar D	rest Lub / Result ib, Hole	interoperability	rest Lub / Result ID, Hote
1											
Discussion	c.										
2											
Discussion	:						1				
3											
Discussion											
DISCUSSION											
4											
Discussion					1		1				
5											
Discussion	c.										
6											
Discussion											
7											
Discussion											
8											
Discussion	r.										
9											
				1	1	l	1				
Discussion				1			1				
10											
Discussion	Discussion:										
Discussion: Vendor's General Notes / Discussion about this Product / Stack's capabilities:											

Suppliers Declaration of Conformity for USGv6 Description and Instructions

USGv6-v1 SDOC-v1.10 Page 4

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	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	Product as Tested/Declared : 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).		Test Suite Conformance and Interoperability 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	Product Family : 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 Self Test have no associated public test suite. If implemented by the supplier, the required adjacent annotation is " <i>Self Declaration</i> ". Note that vendors declaring support for such a capability are declaring support for the associated specific requirements in the USGv6 Profile.
7	Self Contained or Composite SDOC 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 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.