nnli	ers Declara	ation of Co	onformity for U	ISGV6 F	Products				USGv6-v1 SDOC-v1.10 Page 1					
1			uiring Conforn		Toddolo			USGv6 Profile Version 1.0, July 2008. (NIST SP500-267						
2		Product Identifier: Dell EMC SmartFabic OS												
3	Supplier's	s Name. Ad	ddress and SD	OC Cor	ntact Deta	ils								
I EMC		,												
	th Street on, MA. 01748													
	Details: Dilger II, Paula	Atchison												
			hison@dell.com											
4	Product a	s Tested/[Declared: Prod	luct Iden	ntifier, versi	ion/revision information,	details of c	onfigurati	on tested.					
						10.5.	0.3							
5	Product F	amily (oth	er products usi	ng same	e IPv6 stac	k(s) to which these resu	ılts are decl	ared to ap	oply). Check Product Family attestation below.					
;-Sei	ries: S3048.	-ON S404	8-ON S4048T.	-ON S4	112F-ON	S4112T-ON S4128T-O	N S4128F-	ON S414	48F-ON, S4148T-ON, S4148U-ON, S4148FE-ON, S4248FB-					
001	55. 500 10	311, 0101	,	,	,	,	•	•	N, S6010-ON, S5232F-ON					
			•			Z-Series: Z9100-ON, Z9			·					
						Blade Switches: MX	X9116n, MX	5108						
	IIISGVE Ca	anahility s	ummary (For	each die	etinet IPv6	stack in the product pro	wide a sum	mary of its	s LISGV6 canabilities below and include a detailed test result					
	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. example-prod-id/stack-1: USGv6-v1-Host: IPv6-Base+Addr-Arch+IPsec-v3+IKEv2+SLAC+Link=Ethernet.													
5		. e.g. exar	nple-prod-id/sta				rch+IPsec-	/3+IKEv2	+SLAC+Link=Ethernet.					
6		e.g. exar	nple-prod-id/sta				rch+IPsec-	/3+IKEv2	+SLAC+Link=Ethernet.					
6		. e.g. exar	nple-prod-id/sta	a <u>ck-1: U</u>	<u>SGv6-v1-F</u> JSGv6-v1-	lost: IPv6-Base+Addr-A Host: IPv6-Base+Addr	-Arch+SLA	AC+Link	= Ethernet					
6		. e.g. exar	nple-prod-id/sta	a <u>ck-1: U</u>	<u>SGv6-v1-F</u> JSGv6-v1-	lost: IPv6-Base+Addr-A	-Arch+SLA	AC+Link	= Ethernet					
	summary).			us	<i>SGv6-v1-F</i> JSGv6-v1- SGv6-v1-R	Host: IPv6-Base+Addr-A Host: IPv6-Base+Addr Louter: IPv6-Base+Add	-Arch+SLA	AC+Link	= Ethernet					
	summary).	ained or C	omposite SDC	us OC? (Mu	<i>SGv6-v1-F</i> JSGv6-v1- SGv6-v1-R	Host: IPv6-Base+Addr-A Host: IPv6-Base+Addr Couter: IPv6-Base+Addr one).	-Arch+SLA Ir-Arch+SL	AC+Link AAC+Lin	= Ethernet k = Ethernet					
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7	Self Conta All of the dec are addresse SDOC.	ained or C clared USGv6 ed by orginal t	omposite SDC capabilities of this test results reporte	DC? (Muss producted in this	SGv6-v1-h JSGv6-v1- SGv6-v1-R ist indicate	Host: IPv6-Base+Addr-Addrest: IPv6-Base+Addrest (IPv6-Base+Addrest) One). Some or all of the USGv6 of have their own unique USG product's page 2 will indicate	-Arch+SLA Ir-Arch+SL eapabilities of t Ev6 SDOCs. A te which capal	AC+Link AAC+Lin	are provided by the use and/or integration of umodified components that evant referenced SDOCs are identified in section 8 and attached. This provided by specific referenced components (product-id/stack-id).					
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11	Suppli	ers Declaration of Conformity for USGv6 Pro	ducts: Declare	d Capab	ilities ar	nd Test I	Results Summary		U	Gv6-v1 SDOC-v1.10 Pag			
roduct ld:		DellEMC SmartFabic O	s				10.5.0.3						
			Context /	Suppo	rted Capa	bilities		USGv6 Testing Program Results					
Spec /			Configuration				Test Suite	Test Lab / Result ID, Note #, or		Test Lab / Result ID, Note #,			
Reference SP500-267	Section 6.1	USGv6-v1 Profile Requirements IPv6 Basic Requirements	Option	Host	Router	NPD	Conformance/NPD	Component Ref	Test Suite Interoperability	Component Ref			
200-207	0.1	support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base				Basic v1.* C	UNH-IOL/31025	Basic V1.* I	UNH-IOL/31029			
	-	support of PMTU Discovery Protocol requirements	PMTU				Basic v1.* C	UNH-IOL/31025	Basic V1.* I	UNH-IOL/31029			
		support of Fixed Discovery Frotocorrequirements support of stateless address auto-configuration	SLAAC	Р			SLAAC-V1.* C	UNH-IOL/31025	SLAAC-V1.* I	UNH-IOL/31029			
		support of Creation of Global Addresses	SLAAC - c(M)	P			SLAAC-V1.* C	UNH-IOL/31025	SLAAC-V1.* I	UNH-IOL/31029			
		support of SLAAC privacy extensions.	PrivAddr				Self Test	01111102301020	Self Test	01111102/01020			
		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/31028	Addr Arch v1.* I	UNH-IOL/31031			
		support of cryptographically generated addresses	CGA				Self Test		Self Test				
2500-267	6.7	IP Security Requirements											
		support of the IP security architecture	IPsecv3				IPsecv3_v1.*_C		IPsecv3_v1.*_I				
		support for automated key management	IKEv2				IKEv2_v1.*_C		IKEv2_v2.*_I				
		support for encapsulating security payloads in IP	ESP				ESPv3_v1.*_C		ESP_v1.*_I				
2500-267	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				Self Test		OSPFv3_v1.*_I				
		support for inter-domain (exterior) routing protocols	EGW				Self Test		BGP_v1.*_I				
2500-267	6.4	Transition Mechanism Requirements	IPv4				Self Test		0 " 7 '				
		support of interoperation with IPv4-only systems support of tunneling IPv6 over IPv4 MPLS services	6PE				Self Test		Self Test Self Test				
2500 207			OPE				Sell Test						
2500-267	6.8	Network Management Requirements support of network management services	SNMP				Self Test		Self Test Self Test				
2500-267	6.9	Multicast Requirements	SINIVIE				Sell Test		Sell Test				
300-201	0.3	support of basic multicast	Mcast				Self Test						
		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						
		support of application firewall capabilities	APFW				Self Test						
		support of intrusion detection capabilities	IDS				N3_IDS_v1.3						
		support of intrusion protection capabilities	IPS				N4_IPS_v1.3						
2500-267	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			
		(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 notes	S				
Level	Level o	f support for USGv6-v1 Requirements for capability.				Color	Color Indication of USGv6-v1 Recommended Level of Support for device type / stack role.						
	Blank - SDOC makes no declaration for this capability.						Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile.						
Р		required tests of USGv6-V1 requirements for these capab	ilities.				Indicates capability that is unusal for a given device type / stack role. Do not select without careful analysis.						
N	See notes page for details on the level of support of USGv6-v1 reequirements for this capability.							eft optional / ocnditional by the recomm					
X		capability not supported in product.	oquiromonio ioi tilis	Japability			managed oupdomity that is it	on optional / conditional by the recomm	53415/15 OF BIC 55570-VT FT				
t Suite -	Specific I	JSGv6 Test suite used for test. See: http://www.antd.nist.	any/usay6/test-sne	cifications	html			Note # - reference to a	detailed note about this can	ability or result on attached page			
		 Abbreviation of accredited laboratory and its local identification. 			.rrs(III		Note # - reference to a detailed note about this capability or result on attached page. Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.						
				ı.				a - Gappiner / Froundt / Stack ID 01 alstif		noviuto uno capability.			

11		iers Declaration of Conformity for USGv6 Pro		и Сарав			Results Summary	·		SGv6-v1 SDOC-v1.10 Pag				
roduct ld:		DellEMC SmartFabic O	Stack lo	d:			10.5.0.3							
			Context /	Suppo	rted Capa	bilities		USGv6 Testing F						
Spec /			Configuration				Test Suite	Test Lab / Result ID, Note #, or		Test Lab / Result ID, Note #,				
eference	Section		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/31046	Basic_V1.*_I	UNH-IOL/31047				
		support of PMTU Discovery Protocol requirements	PMTU		Р		Basic_v1.*_C	UNH-IOL/31046	Basic_V1.*_I	UNH-IOL/31047				
		support of stateless address auto-configuration	SLAAC		P P		SLAAC-V1.*_C	UNH-IOL/31046	SLAAC-V1.*_I	UNH-IOL/31047				
		support of Creation of Global Addresses support of SLAAC privacy extensions.	SLAAC - c(M) PrivAddr		Р		SLAAC-V1.*_C Self Test	UNH-IOL/31046	SLAAC-V1.*_I Self Test	UNH-IOL/31047				
		support of SLAAC privacy extensions. support of stateful (DHCP) address auto-	DHCP-Client				DHCP_Client_v1.*_C		DHCP Client v1.* I					
		support of stateful (Brief) address auto-	DHCP-Prefix				Self Test		Self Test					
		support of neighbor discovery security extensions	SEND				Self Test		Self Test					
500-267	6.6	Addressing Requirements	OLIND				Och rest		OCH TOST					
300-201	0.0	support of addressing architecture regts	Addr-Arch		Р		Addr Arch v1.* C	UNH-IOL/31048	Addr Arch v1.* I	UNH-IOL/31049				
		support of addressing architecture requs support of cryptographically generated addresses	CGA		Р		Self Test	UNH-IOL/31048	Self Test	UNH-IOL/3 1049				
500-267	6.7	IP Security Requirements	CGA				Sell Test		Sell Test					
500-267	6.7	support of the IP security architecture	IPsecv3				IPsecv3 v1.* C		IPsecv3 v1.* I					
		support of the IP security architecture support for automated key management	IKEv2				IKEv2 v1.* C	1	IKEv2 v2.* I	1				
		support for automated key management support for encapsulating security payloads in IP	ESP				ESPv3 v1.* C		ESP v1.* I	1				
500-267	6.11	Application Requirements	LOI				201 10_110							
000-201	0.11	support of DNS client/resolver functions	DNS-Client				Self Test		Self Test					
		support of BN3 client/resolver functions 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				Self Test		OSPFv3_v1.*_I					
		support for inter-domain (exterior) routing protocols	EGW				Self Test		BGP_v1.*_I					
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												
		support of basic multicast	Mcast				Self Test		0 ". T. /					
E00 007	C 40	full support of multicast communications Mobility Requirements	SSM				Self Test		Self Test					
500-267	6.10	support of mobile IP capability.	MIP				Self Test		Self Test					
		support of mobile in capability. support of mobile network capabilities	NEMO				Self Test		Self Test					
500-267	6.3	Quality of Service Requirements	INLINIO				Sell Test		Sell Test					
300-207	0.3	support of Differentiated Services capabilities	DS				Self Test		Self Test					
500-267	6.12	Network Protection Device Requirements	D3				Sell Test		Sell Test					
300-207	0.12		NPD				N1 N2 N3 N4 v1.3							
		support of common NPD reqts	FW				N1 FW v1.3							
	 	support of basic firewall capabilities support of application firewall capabilities	APFW				N1_FW_V1.3 Self Test	 	+	1				
		support of application firewall capabilities support of intrusion detection capabilities	IDS				N3 IDS v1.3	1	†	1				
	-	support of intrusion detection capabilities	IPS				N4 IPS v1.3	1	1	1				
500-267	6.5	Link Specific Technologies					114_11 0_11.0							
000-201	0.0	support of robust packet compression services	ROHC				Self Test		Self Test					
			Link=Ethernet		Р		Self Test	Self Declaration	Self Test	Self Declaration				
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	(repeat as needed) support of link technology Link=									İ				
12		< Check HERE if this stack's DOC includes		mation a	about te	sted ca	pabilities and options	on an attached page 3 of notes	S					
.evel	Level of support for USGv6-v1 Requirements for capability.						lor Indication of USGv6-v1 Recommended Level of Support for device type / stack role.							
	Blank - SDOC makes no declaration for this capability.						Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile.							
P		required tests of USGv6-V1 requirements for these capab	ilitios				Indicates capability that is recommended 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.							
N		es page for details on the level of support of USGv6-v1 re	equirements for this	capability	/.		inuicates capability that is le	eft optional / ocnditional by the recomm	edations of the USGv6-v1 P	ronie.				
Х	USGv6	capability not supported in product.												
st Suite - Specific USGv6 Test suite used for test. See: http://www.antd.nist.gov/usgv6/test-specifications.html										ability or result on attached page				
		 Abbreviation of accredited laboratory and its local identified 					Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.							

											r6-v1 SDOC-v1.10 Page 3
Field Product Id:						Stack lo	d:				
13	13			Context /	Suppo	orted Capabilities			Notes about USG	6v6-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
Note #	Kelefelice	Section	USGVo-VT Frome Requirements	Option	nost	Router	NFD	Comormance/NPD	Test Lab / Result ID, Note	interoperability	rest Lab / Result ID, Note
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Vendor's (Seneral 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 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.

Stack-1 Notes Instructions: The supplier may choose to use the Notes (page 3) in 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.