Suppli	ers Declaration of Confo		roducts				USGv6-v1 SDOC-v1.10 Page 1			
1	The Document Requirir	ng Conformity:					USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)			
2	Product Identifier:		SUSE Linux Enterprise Server							
3										
	SUSE Software Solutions Germany GmbHMaxfeldstrasse 5, 90409 Nürnberg, Germanywww.suse.comPhone: +49-(0)911-740-53-0Email: blaine.stone@suse.com									
4	g									
_	12 Service Pack 5									
5	Product Family (other p	products using same	IPv6 stack(s) to which	h these resul	ts are decl	ared to appl	ly). Check Product Family attestation below.			
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. example	e-prod-id/stack-1: US	Gv6-v1-Host: IPv6-Ba	ase+Addr-Ard	ch+IPsec-v	/3+IKEv2+S	SLAC+Link=Ethernet.			
7 YES										
	SDOC.									
8	Additional Declarations / Attachments: (List supplier & product-id/stack-id			id/stack-id fo	r reference	ed and attac	hed test results in the case of composite products).			
	Component Supplier		Product ID:		Stack ID:		Notes:			
[1]										
[2]										
[3]										
[4]										
9	Supplementary Attestations (Answer all).									
	YES 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.			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.					
	YES This SDOC contains a capabilities test report for each unique IPv6 stack in the product. If not, the stacks/ports not covered are documented, and how their Ipv6 capabilities differ from those reported are explained.				YES	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 Print Name / Title Ala	17 C/24			Date		01/11/22			
See instr	ructions for fields 1-12 on Page 4		anon gomphance Proj	yranı ivlandy	<u></u>					

11	Suppli	ppliers Declaration of Conformity for USGv6 Products: Declared Capabilities and Test Results Summary USGv6-v1 SDOC-v1.10 Page 2								
Product Id: SUSE Linux Enterprise Server Stack I				d:			12 Service Pack 5			
	•			rted Capa	bilities		USGv6 Testing Program Results			
Spec /			Configuration				Test Suite	Test Lab / Result ID, Note #, or	Test Suite	Test Lab / Result ID, Note #, or
Reference		USGv6-v1 Profile Requirements	Option	Host	Router	NPD	Conformance/NPD	Component Ref	Interoperability	Component Ref
SP500-267	6.1	IPv6 Basic Requirements	15.05				5 . 1 . 0	100047	5	100000
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND) support of PMTU Discovery Protocol requirements	IPv6-Base PMTU	P P			Basic_v1.*_C Basic_v1.*_C	UNH-IOL/33347 UNH-IOL/33347	Basic_V1.*_I Basic V1.* I	UNH-IOL/33354 UNH-IOL/33354
		support of PMTO Discovery Protocol requirements support of stateless address auto-configuration	SLAAC	P			SLAAC-V1.*_C	UNH-IOL/33347	SLAAC-V1.*_I	UNH-IOL/33354
		support of Stateless address adde configuration		P			SLAAC-V1.*_C	UNH-IOL/33347	SLAAC-V1I	UNH-IOL/33354
		support of SLAAC privacy extensions.	PrivAddr				Self Test		Self Test	
		configuration		N				UNH-IOL/34272 Notes 3-8	DHCP_Client_v1.*_I	UNH-IOL/34273
		support of automated router prefix delegation	DHCP-Prefix				Self Test		Self Test	
		support of neighbor discovery security extensions	SEND				Self Test		Self Test	
SP500-267	6.6	Addressing Requirements								
		support of addressing architecture reqts	Addr-Arch	Р			Addr_Arch_v1.*_C	UNH-IOL/33348	Addr_Arch_v1.*_I	UNH-IOL/33355
		support of cryptographically generated addresses	CGA				Self Test		Self Test	
SP500-267	6.7	IP Security Requirements	ID 0				ID 0 1 to 0	111111111111111111111111111111111111111	ID 0 4 t 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u> </u>		support of the IP security architecture	IPsecv3 IKEv2	N N			IPsecv3_v1.*_C	UNH-IOL/33350 UNH-IOL/33351, Note 2	IPsecv3_v1.*_I	UNH-IOL/33358, Note 1 UNH-IOL/33359
		support for automated key management support for encapsulating security payloads in IP	ESP	N			IKEv2_v1.*_C ESPv3_v1.*_C	UNH-IOL/33351, Note 2	IKEv2_v2.*_I ESP_v1.*_I	UNH-IOL/33359 UNH-IOL/33358, Note 1
SP500-267	6.11	Application Requirements	LJF	I N			LOF V3_V1C	01411-101/00000	LJF_V1."_I	ON I-IOL/30330, NOTE 1
J. 300-201	CILL	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	Р			Self Test		DHCP_Serv_v1.*_I	UNH-IOL/33357
SP500-267	6.2	Routing Protocol Requirements								
		protocols	IGW				Self Test		OSPFv3_v1.*_I	
		support for inter-domain (exterior) routing protocols	EGW				Self Test		BGP_v1.*_I	
SP500-267	6.4	Transition Mechanism Requirements					·		·	
		support of interoperation with IPv4-only systems	IPv4				Self Test		Self Test	
SP500-267	6.8	support of tunneling IPv6 over IPv4 MPLS services Network Management Requirements	6PE				Self Test		Self Test	
SP500-207	6.8	support of network management services	SNMP				Self Test		Self Test Self Test	
SP500-267	6.9	Multicast Requirements	SINIVII				Jen rest		Juli 103t	
0. 000 201	0.0	support of basic multicast	Mcast				Self Test			
		full support of multicast communications	SSM				Self Test		Self Test	
SP500-267	6.10	Mobility Requirements								
		support of mobile IP capability.	MIP				Self Test		Self Test	
		support of mobile network capabilities	NEMO				Self Test		Self Test	
SP500-267	6.3	Quality of Service Requirements								
		support of Differentiated Services capabilities	DS				Self Test		Self Test	
SP500-267	6.12	Network Protection Device Requirements								
		support of common NPD regts	NPD				N1 N2 N3 N4_v1.3			
-		support of basic firewall capabilities support of application firewall capabilities	FW APFW				N1_FW_v1.3 Self Test			
		support of application frewall capabilities support of intrusion detection capabilities	IDS				N3 IDS v1.3			+
		support of intrusion protection capabilities	IPS				N4_IPS_v1.3			<u> </u>
SP500-267	6.5	Link Specific Technologies	0				0_1110			
		support of robust packet compression services	ROHC				Self Test		Self Test	
		support of link technology [O:1]		Р			Self Test	Self Declaration	Self Test	Self Declaration
		(repeat as needed) support of link technology	Link=							
12	Х	< Check HERE if this stack's DOC includ	es additional i	nforma	tion ab	out test	ted capabilities and	options on an attached page	3 of notes.	
		support for USGv6-v1 Requirements for capabil								
		- SDOC makes no declaration for this capability. Indicates capability that is recommended as mandatory (unconditional MUST) in the U\$Gv6-v1 Profile.								
							unusal for a given device type / stac			
		es page for details on the level of support of USGv6-v	6-v1 reequirements for this capability. Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.							
Х	USGv6	capability not supported in product.								
		USGv6 Test suite used for test. See: http://www.ant			ications.h	tml				apability or result on attached page.
Test Lab / R	esult ID	 Abbreviation of accredited laboratory and its local in 	dentifier for this tes	st result.			Component Ref	 Supplier / Product / Stack ID of dist 	inctly tested component t	hat provides this capability.

Supplier	s Declaratio	n of Con	formity for USGv6 Products: Notes Page	USGv6-v1 SDOC-v1.10 Page 3										
Field	Field Product Id:		SUSE Linux Enterprise S	erver	Stack Id:						12 Service Pack 5			
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			
rece "	Reference	Ocotion	OCOVO VII Tome Requirements	Option	11030	Router	141 2	Comornianochu B	Test Las / Result is, Note	meroperasinty	Tool Law / Noodie 15, Note			
1	RFC4301		Security Architecture for the IP	IPsec-v3	М					IPsecv3_v1.*_I	UNH-IOL/33358, Note 1			
1	RFC4303		Encapsulating Security Payload (ESP)	IBcoc v2	м					IPsecv3_v1.*_I	LINIH IOI /22259 Noto 1			
	<u>IXI C4303</u>	Encapsulating Security Payload (ESP) IPsec-v3 M IPsec-v3 IPsec-v3												
Discussio	n:		and re-establish the tunnel. SUSE is working in the											
2	RFC4306		Internet Key Exchange (IKEv2) Protocol	IKEv2	М			IKEv2 v1.* C	UNH-IOL/33351, Note 2					
2	<u>KFC4300</u>	The device	under test transmitted an unencrypted Echo Reply p			crypted F	cho Regu			et from TN1 that specifi	ed TCP as the only protocol in			
Discussion	n:	the traffic s		racket iii response	ıo an en	crypted L		r	Televing an INE_AO III pack	et from TNI that speem	To us the only protocorm			
	DE0221E		Demonite Heat Confin Bustoned (BHOB)	DUOD OF	-(1.4)			DUOD Olivet vid 2 O						
3	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Notes 3					
Discussio	n:	The retrans	The retransmit-time calculation does not include previous RAND factor of +/- 0.1s.											
	DE00045			DUOD OF A	(4.6)			DUOD 01: 4 4 0 0						
4	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Note 4					
Discussio	n:	After receiv	ring an advertise message, the request message is d	eferred until curren	t the RT	is over, ra	ather than	immediately.						
5	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Note 5					
Discussio	n:	Release messages are sent to the server before the addresses have been removed.												
6	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Note 6					
Discussio	iscussion: Rebind reply messages with no IA are discarded instead of resending the rebind message													
7	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Note 7					
Discussion: Status codes in a reply to release messages are not checked, but rather it considers any reply as success														
8	RFC3315		Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)			DHCP_Client_v1.2_C	UNH-IOL/34272 Note 8					
Discussio	n:	UseMulticast, NoBinding, and UnspecFail status codes are not handled properly												
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/ondores	Conducto Consess Notes / Discussion shout this Dreduct / Steelds conshilities:													
/endor'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	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 "Self Declaration". 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.