

Suppliers Declaration of Conformity for USGv6 Products

1 The Document Requiring Conformity: SUSE Linux Enterprise Server

2 Product Identifier:

3 Supplier's Name, Address and SDOC Contact Details  
 SUSE Software Solutions Germany GmbH  
 Maxfeldstrasse 5, 90409 Nurnberg, Germany  
 www.suse.com  
 Phone: +49-(0)911-740-53-0  
 Email: mark.damell@suse.com

4 Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested.  
 15 Service Pack 2


5 Product Family (other products using same IPv6 stack(s) to which these results are declared to apply). Check Product Family attestation below.

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-prod-id/stack-1: USGv6-v1-Host: IPv6-Base+Addr-Arch+IPsec-v3+IKEv2+SLAC+Link-Ethernet.  
 USGv6-v1-Host: IPv6-Base+Addr-Arch+SLAC+IKEv2+ESP+Link = Ethernet

7	Self Contained or Composite SDOC? (Must indicate one).	NO	YES
YES	All of the declared USGv6 capabilities of this product are addressed by original test results reported in this SDOC.	Some or all of the USGv6 capabilities of this product are provided by the use and/or integration of unmodified components that have their own unique 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).	

8	Additional Declarations / Attachments: (List supplier & product-id/stack-id for referenced and attached test results in the case of composite products).	Product ID:	Stack ID:	Notes:
[1]				
[2]				
[3]				
[4]				

9	Supplementary Attestations (Answer all).	YES	NO
YES	This product is fully functional in dual stack environments. That is, no claimed capabilities are invalidated if this 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 performance 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 capabilities are identical and unmodified for all the products cited above.

10 Signature:   
 Print Name / Title: Mark Damell / Senior Product Manager  
 Date: 6/18/2021

11 Suppliers Declaration of Conformity for USGv6 Products: Declared Capabilities and Test Results Summary

SUSE Linux Enterprise Server Stack Id: USGv6 Testing Program Results 15 Service Pack 2

Product Id:	SUSE Linux Enterprise Server		Stack Id:	USGv6 Testing Program Results		15 Service Pack 2		
Spec / Reference	Section	USGv6-v1 Profile Requirements	Context / Configuration Option	Supported Capabilities	Test Suite	Test Lab / Result ID, Note #, or Component Ref		
SP500-267	6.1	<b>IPv6 Basic Requirements</b> support of IPv6 base (IPv6:ICMPv6:PMTU:ND) support of PMTU Discovery Protocol requirements support of stateless address auto-configuration support of Creation of Global Addresses support of SLAAC privacy extensions support of stateful (DHCP) address auto-configuration support of automated router prefix delegation support of neighbor discovery security extensions	IPv6-Base PMTU SLAAC SLAAC-c(M) Privacy DHCP-Client DHCP-Prefix SEND	Host Router NPD	Basic v1.* C Basic v1.* G SLAAC-V1.* C SLAAC-V1.* C Self Test DHCP Client v1.* C Self Test Self Test	UNH-IOL/32386 UNH-IOL/32386 UNH-IOL/32386 UNH-IOL/32386 UNH-IOL/32386 UNH-IOL/32390 Notes 2-7 UNH-IOL/32388	Basic v1.* I Basic v1.* I SLAAC-V1.* I SLAAC-V1.* I Self Test DHCP Client v1.* I Self Test Self Test	UNH-IOL/32387 UNH-IOL/32387 UNH-IOL/32387 UNH-IOL/32387 UNH-IOL/32391 UNH-IOL/32389
SP500-267	6.6	<b>Addressing Requirements</b> support of addressing architecture reqs support of cryptographically generated addresses	Addr-Arch CGA	P	Addr Arch v1.* C Self Test	UNH-IOL/32388	Addr Arch v1.* I Self Test	UNH-IOL/32389
SP500-267	6.7	<b>IP Security Requirements</b> support of the IP security architecture support for automated key management support for encapsulating security payloads in IP	IPsecv3 IKEv2 ESP	N P P	IPsecv3 v1.* C IKEv2 v1.* C ESP v3 v1.* C Self Test Self Test Self Test	UNH-IOL/32393 UNH-IOL/32395 UNH-IOL/32393	IPsecv3 v1.* I IKEv2 v2.* I ESP v1.* I Self Test Self Test Self Test	UNH-IOL/32394 Note 1 UNH-IOL/32396 UNH-IOL/32394
SP500-267	6.11	<b>Application Requirements</b> support of DNS client/resolver functions support of Socket application program interfaces support of IPv6 uniform resource identifiers support of a DNS server application support of a DHCP server application	DNS-Client SOCK URI DNS-Server DHCP-Server		Self Test Self Test Self Test Self Test Self Test		Self Test Self Test Self Test Self Test DHCP Serv v1.* I	
SP500-267	6.2	<b>Routing Protocol Requirements</b> support of the intra-domain (interior) routing protocols support for inter-domain (exterior) routing protocols	IGW EGW		Self Test Self Test		OSPFv3 v1.* I BGP v1.* I	
SP500-267	6.4	<b>Transition Mechanism Requirements</b> support of interoperation with IPv4-only systems support of tunneling IPv6 over IPv4 MPLS services	IPv4 6PE		Self Test Self Test		Self Test Self Test	
SP500-267	6.8	<b>Network Management Requirements</b> support of network management services	SNMP		Self Test		Self Test	
SP500-267	6.9	<b>Multicast Requirements</b> support of basic multicast full support of multicast communications	Mcast SSM		Self Test Self Test		Self Test	
SP500-267	6.10	<b>Mobility Requirements</b> support of mobile IP capability support of mobile network capabilities	MIP NEMO		Self Test Self Test		Self Test Self Test	
SP500-267	6.3	<b>Quality of Service Requirements</b> support of Differentiated Services capabilities	DS		Self Test		Self Test	
SP500-267	6.12	<b>Network Protection Device Requirements</b> support of common NPD reqs support of basic firewall capabilities support of application firewall capabilities support of intrusion detection capabilities support of intrusion protection capabilities	NPD FW APFW IDS IPS		N1 IN2 IN3 IN4 v1.3 N1 FW v1.3 Self Test N3 IDS v1.3 N4 IPS v1.3		Self Test Self Test Self Test	
SP500-267	6.5	<b>Link Specific Technologies</b> support of robust packet compression services support of link technology [O-1]	ROHC Link-Ethernet	P	Self Test Self Test	Self Declaration	Self Test Self Test	Self Declaration
12	< Check HERE if this stack's DOC includes additional information about tested capabilities and options on an attached page 3 of notes.		link=					
Level	<b>Level of support for USGv6-v1 Requirements for capability.</b>		Color	Indication of USGv6-v1 Recommended Level of Support for device type / stack role.				
P	Blank - SDOC makes no declaration for this capability.			Indicates capability that is recommended as mandatory (unconditional MUST) in the USGv6-v1 Profile.				
N	Passed required tests of USGv6-v1 requirements for these capabilities.			Indicates capability that is unusual for a given device type / stack role. Do not select without careful analysis.				
X	See notes page for details on the level of support of USGv6-v1 requirements for this capability.			Indicates capability that is left optional / conditional by the recommendations of the USGv6-v1 Profile.				
Test Suite - Specific USGv6 Test suite used for test. See: http://www.antd.nist.gov/usgv6/test-specifications.html		Test Lab / Result ID - Abbreviation of accredited laboratory and its local identifier for this test result.		Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.		Note # - reference to a detailed note about this capability or result on attached page.		

Field	Product Id:	SUSE Linux Enterprise Server			Stack Id:	Notes about USGV6-v1 Capabilities.			15 Service Pack 2
13	Spec / Reference	Section	Context / Configuration Option	Supported Capabilities	Host	Router	NPD	Test Suite	Test Suite Interoperability
1	RFC4301	USGV6-v1 Profile Requirements	IPsec-v3	M				IPsecv3 v1.*.1	
1	RFC4303	Security Architecture for the IP	IPsec-v3	M				IPsecv3 v1.*.1	
1	RFC4303	Encapsulating Security Payload (ESP)	IPsec-v3	M				IPsecv3 v1.*.1	
2	RFC3315								
2	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Notes 2
Discussion:		The retransmit-time calculation does not include previous RAND factor of +/- 0.1s.							
3	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Note 3
Discussion:		After receiving an advertise message, the request message is deferred until current the RT is over, rather than immediately.							
4	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Note 4
Discussion:		Release messages are sent to the server before the addresses have been removed.							
5	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Note 5
Discussion:		Rebind reply messages with no IA are discarded instead of resending the rebind message							
6	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Note 6
Discussion:		Status codes in a reply to release messages are not checked, but rather it considers any reply as success							
7	RFC3315	Dynamic Host Config Protocol (DHCPv6)	DHCP Client	c(M)				DHCP Client v1.2 C	UNHQUL/32390 Note 7
Discussion:		UseMulticast, NoBinding, and UnspecFail status codes are not handled properly							
8									
Discussion:									
9									
Discussion:									
Vendor's General Notes / Discussion about this Product / Stack's capabilities:									

