USGv6-v1 SDOC-v1.10 Page 1										
USGv6 Profile Version 1.0, July 2008. (NIST SP500-267)										
oduct Identifier: RTL8156B										
nnovation Road II, Hsinchu Science Park, Hsinchu 300, Taiwan										
Chien, Bambi Yeh _chien@realtek.com bambi.yeh@realtek.com										
Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested.										
<u>u</u>										
2.14.0										
declared to apply). Check Product Family attestation below.										
RTL8156B										
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										
ec-v3+IKEv2+SLAC+Link=Ethernet.										
SLAAC+Link = Ethernet										
Self Contained or Composite SDOC? (Must indicate one). 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 umodified 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).										
enced and attached test results in the case of composite products).										
ID: Notes:										
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										
capabilities are invalidated if this product is deployed in a network environment that does not support lpv4.										
capabilities are invalidated if this product is deployed in a network environment that										
capabilities are invalidated if this product is deployed in a network environment that does not support Ipv4. 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 capabilities are identical and unmodified										
capabilities are invalidated if this product is deployed in a network environment that does not support lpv4. 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 capabilities are identical and unmodified for all the products cited above.										
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		iers Declaration of Conformity for USGv6	Toducia. Del	Jai Gu C			Tool Results Guilli			Gv6-v1 SDOC-v1.10 Pag		
oduct lo	d:	RTL8156B Stack Id:							r8152-2.14.0			
			Context /	Suppo	rted Capa	bilities		USGv6 Testing Program Results				
Spec /			Configuration	Спрро			Test Suite	Test Lab / Result ID, Note #, or	Test Suite	Test Lab / Result ID, Note #		
eference	Section	USGv6-v1 Profile Requirements	Option	Host	Router	NPD	Conformance/NPD	Component Ref	Interoperability	Component Ref		
500-267		IPv6 Basic Requirements							' '			
		support of IPv6 base (IPv6;ICMPv6;PMTU;ND)	IPv6-Base	Р			Basic_v1.*_C	UNH-IOL/33281	Basic_V1.*_I	UNH-IOL/33282		
		support of PMTU Discovery Protocol requirements	PMTU	P			Basic_v1.*_C	UNH-IOL/33281	Basic_V1.*_I	UNH-IOL/33282		
		support of stateless address auto-configuration	SLAAC	P			SLAAC-V1.*_C	UNH-IOL/33281	SLAAC-V1.*_I	UNH-IOL/33282		
		support of Creation of Global Addresses	SLAAC - c(M)	P			SLAAC-V1.*_C	UNH-IOL/33281	SLAAC-V1.* I	UNH-IOL/33282		
		support of SLAAC privacy extensions.	PrivAddr	<u> </u>			Self Test	01111102,00201	Self Test	0.11.102/00202		
		support of stateful (DHCP) address auto-	DHCP-Client				DHCP_Client_v1.*_C		DHCP_Client_v1.*_I			
		support of stateful (Differ) address addo-	DHCP-Prefix				Self Test		Self Test			
		support of automated router prefix delegation support of neighbor discovery security extensions	SEND				Self Test		Self Test			
500-267	6.6	Addressing Requirements	OLIND				Sen Test		Sell Test			
300-207	0.0	support of addressing architecture reqts	Addr-Arch	Р			Addr_Arch_v1.*_C	UNH-IOL/33283	Addr_Arch_v1.*_I	UNH-IOL/33284		
			CGA				Self Test	UNH-IOL/33263	Self Test	UNH-IOL/33264		
E00 067	C 7	support of cryptographically generated addresses	CGA				Sell Test		Sell Test			
500-267	6.7	IP Security Requirements	IPsecv3				IDeany24 * O		IDagay2 v4 * 1			
		support of the IP security architecture					IPsecv3_v1.*_C	ļ	IPsecv3_v1.*_I	 		
	-	support for automated key management	IKEv2				IKEv2_v1.*_C	1	IKEv2_v2.*_I	+		
F00 00T	0.44	support for encapsulating security payloads in IP	ESP				ESPv3_v1.*_C		ESP_v1.*_I			
500-267	6.11	Application Requirements	DN10-0"				·		0.45			
	.	support of DNS client/resolver functions	DNS-Client	ļ			Self Test		Self Test	1		
		support of Socket application program interfaces	SOCK	<u> </u>			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	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					
		full support of multicast communications	SSM				Self Test		Self Test			
500-267	6.10	Mobility Requirements										
000 201	0.10	support of mobile IP capability.	MIP				Self Test		Self Test			
		support of mobile network capabilities	NEMO				Self Test		Self Test			
500-267	6.3	Quality of Service Requirements	IVEIVIO				Gen Test		Gen rest			
300-201	0.5	support of Differentiated Services capabilities	DS				Self Test		Self Test			
500-267	6.12	Network Protection Device Requirements	DS				Sell Test		Sell Test			
500-207	0.12		NDD				NAINOINIOINA					
		support of common NPD regts	NPD				N1 N2 N3 N4_v1.3		-			
	<u> </u>	support of basic firewall capabilities	FW				N1_FW_v1.3		-	1		
	<u> </u>	support of application firewall capabilities	APFW				Self Test		-	1		
	<u> </u>	support of intrusion detection capabilities	IDS				N3_IDS_v1.3		-	1		
500		support of intrusion protection capabilities	IPS				N4_IPS_v1.3					
500-267	6.5	Link Specific Technologies	50				- 1/- ·		0.45			
	ļ	support of robust packet compression services	ROHC				Self Test		Self Test	1		
		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 include	es additional i	nformat	tion abo	ut teste	ed capabilities and o	ptions on an attached page	3 of notes.			
	ı											
	Level of support for USGv6-v1 Requirements for capability. Color Indication of USGv6-v1 Recommended Level of Support for de											
	Blank - SDOC makes no declaration for this capability. P Passed required tests of USGv6-V1 requirements for these capabilities.						Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile. Indicates capability that is unusal for a given device type / stack role. Do not select without careful analysis.					
Р												
N	See not	es page for details on the level of support of USGv6-v	1 reequirements	for this ca	apabilitv.		Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile.					
		capability not supported in product.		50			and the second state of					
^	10000											
t Ci4a	Spacifi -	LISCUS Toot quito used for test. See http://www.set-	I niet govilver 64	oot open!	iontions b	tml		Note # reference to a	dotailed note shout this -	anability or regult an attached		
est Suite - Specific USGv6 Test suite used for test. See: http://www.antd.nist.gov/usgv6/test-specifications.html est Lab / Result ID - Abbreviation of accredited laboratory and its local identifier for this test result.						uIII	Note # - reference to a detailed note about this capability or result on attached pag Component Ref - Supplier / Product / Stack ID of distinctly tested component that provides this capability.					
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Suppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary USGv6-v1 SDOC-v1.10										-v1 SDOC-v1.10 Page 3	
Field	Product Id:					Stack I	d:				
13				Context /	Supported Capabilities				Notes about USG	v6-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	030V0-V1 F10IIIe Requirements	Орион	11031	Kouter	NFD	Comormance/NFD	rest Lab / Nesult ID, Note	interoperability	rest Lab / Nesult ID, Note
1											
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Discussion	1:										
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Discussion	n:				1	1					
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Discussion	1:				I	1 1					
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Discussion	n:										
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8											
Discussion	n:										
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Discussion	n:										
10											
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Discussion: Vendor's General Notes / Discussion about this Product / Stack's capabilities:											
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

Field Description and Instructions

- 1 The Document Requiring Conformity: Identifies the profile version implemented. Not a user completable field.
- 2 Product Identifier: Supplier's concise name for the product declared.
- 3 Suppliers Name, Address and Contact Details: Company name and point of contact for SDOC questions, street address, phone and email.
- 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).
- 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.
- **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).
- 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.
- 8 Additional Declarations / Attachements: List the supplier / product ID / Stack ID of any test results of composite components referenced by this SDOC.
- 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.
- **Signature Block**: Wet ink signature of the responsible product manager, dated. Printed name and position title on the line below.

Description and Instructions

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.