	SUPP		INFORMATION SUPPLIER SIGNATURE					
SUPPL	JER NAME	Palo Alto Networks						
	LIER CONTACT EMAIL	jbajic@paloaltonetworks.com	Docusigned by:  Jake Bajic  22488038277288	8/9/2023				
	ACCREDITED L	ABORATORY	ACCREDITED LABORATORY SIGI	NATURE				
LABOR	RATORY NAME	UNH InterOperability Laborator	DocuSigned by:	8/9/2023				
LABOR	RATORY CONTACT EMAIL	usgv6-sdoc@iol.unh.edu	Michayla Newcombe	0, 3, 2023				
	[2] PRODUCT VE	RSION TESTED	[3] PRODUCT ID					
	11.	0.2	PAN-OS 11.	0				
		[4] PRODI	JCT FAMILY					
	APPLICABLE SER	IES HARDWARE	APPLICABLE SERIES SOFTW	ARE				
PA-1 Serie	PA-220R, PA-400 Series, PA-800 Series, PA-1400 Series, PA-3200 Series, PA-3400 Series, PA-5200 Series, PA-5400 Series, PA-5450, PA-7000 Series, VM-Series Firewalls							
		[5] UNITARY OR	COMPOSITE SDOC					
Unitary: All of the declared capabilities of this product are addressed by original test results reported in this SDoC.  Composite: Some or all of the capabilities of this are provided by the use and/or integration of unmodific components that have their own unique SDoCs. All of relevant referenced SDoCs are identified in section 6 linked.								
[6] REF	SUPPLIER	PRODUCT ID/STACK ID	CAPABILITY SUMMARY	COMPOSITE SDOC LINK				
i.	Palo Alto Networks	PAN-OS 11.0/11.0.2	JSGv6-r1:NPP+FW+IDS+ISP+Link=Etherne	t				
		[7] USGV6-CAPAB	LE REQUIREMENTS					
US	SGv6-r1-Capable-Host	USGv6-r1-Capable-Router	USGv6-r1-Capable-Switch USGv6-r1-Capable-Switch	apable-NPP				
•	NICT OD EGG GOZDIA 11	;	) REFERENCED					
i. ii.	NIST SP 500-267Br1, U	9040 LLOING						
11.		[9] SUPPLEMENTA	ARY ATTESTATIONS					
That is operat	X 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 (IPv6 and IPv4) network environment.    X This SDoC contains a capabilities test report for each unique IPv6 stack in the product. If not, the stacks/ports not   X This SDoC contains a capabilities are invalidated if this product deployed in a network environment that does not support IPv   X All of the products listed in the product family in section 4 implemented such that their capabilities are identical in form a section 4 implemented such that their capabilities are identical in form a section 4 implemented such that their capabilities are invalidated if this product is fully functional in IPv6 only environments.   X This product is fully functional in IPv6 o							
	ed are documented, and ho hose reported are explained	w their IPv6 capabilities differ d.	function across the entire product family. The specific conformance and interoperability test results for of an identified member of this product family at SDoC. The SDoC attests that these tested capatidentical and unmodified for all the products cited.	the capabilities re provided in this abilities are				

# **Host Capabilities**

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY
[11]	CAPABILITY	CONFOR		INTEROPERABILI		NOTES
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID	
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F		
-	Core	Core_R1v1.*_C		Core_R1v1.*_I		
-	Extended-ICMP	Self-Test		Self-Test		
-	PLPMTUD	Self-Test		Self-Test		
-	ND-Ext	Self-Test		Self-Test		
-	ND-WL	Self-Test		Self-Test		
-	SEND	Self-Test		Self-Test		
-	SLAAC	SLAAC_R1v1.*_C		SLAAC_R1v1.*_I		
-	PriAddr	Self-Test		Self-Test		
-	DHCP- Stateless	DHCP- Stateless_R1v1 .*_C		DHCP- Stateless_R1v1 .*_I		
-	DHCP-Client	DHCP- Client_R1v1.*_C		DHCP- Client_R1v1.*_I		
-	DHCP-Client- Ext	Self-Test		Self-Test		
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I		
-	DHCP-Prefix- Ext	Self-Test		Self-Test		
-	6Lo	Self-Test		Self-Test		

# **Host Capabilities**

		Self-Test	Self-Test	
-	Happy-Eyeballs			
		Addr-	Addr-	
-	Addr-Arch	Arch_R1v1.*_C	Arch_R1v1.*_I	
		Self-Test	Self-Test	
-	CGA	3311 1331	30/1/301	
-	DNS-Client	Self-Test	Self-Test	
-	URI	Self-Test	Self-Test	
-	NTP-Client	Self-Test	Self-Test	
-	NTP-Server	Self-Test	Self-Test	
-	DNS-Server	Self-Test	Self-Test	
-	DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I	
-	DHCP-Server- Ext	Self-Test	Self-Test	
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I	
-	IPsec	IPsec_R1v1.*_C	IPsec_R1v1.*_I	
-	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	IPsec-SHA- 512_R1v1.*_I	
-	SSHV2	Self-Test	Self-Test	
-	TLS	Self-Test	Self-Test	
-	TLS-1.3	Self-Test	Self-Test	
-	Tunneling-IP	Self-Test	Self-Test	

# **Host Capabilities**

	1					
-	Tunneling-UDP	Self-Test	Self-Test			
-	XLAT	Self-Test	Self-Test			
-	NAT64	Self-Test	Self-Test			
-	DNS64	Self-Test	Self-Test			
-	SNMP	Self-Test	Self-Test			
-	Tunneling	Self-Test	Self-Test			
-	DiffServ	Self-Test	Self-Test			
-	NETCONF	Self-Test	Self-Test			
-	SSM	Self-Test	Self-Test			
-	Multicast	Multicast_R1v1 .*_C	Multicast_R1v1 .*_I			
-	ECN	Self-Test	Self-Test			
-	Link =	Self-Test	Self-Test			

### **Router Capabilities**

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY
[11] SUPPORTED		CONFOR TEST	MANCE RESULT ID	INTEROPERABIL TEST	ITY/FUNCTIONAL RESULT ID	NOTES
CAPABILITY	CAPABILITY	SELECTION	RESULT ID	SELECTION	RESULT ID	
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F		
-	Core	Core_R1v1.*_C		Core_R1v1.*_I		
-	Extended-ICMP	Self-Test		Self-Test		
-	PLPMTUD	Self-Test		Self-Test		
-	ND-Ext	Self-Test		Self-Test		
-	ND-WL	Self-Test		Self-Test		
-	SEND	Self-Test		Self-Test		
-	SLAAC	SLAAC_R1v1.*_C		SLAAC_R1v1.*_I		
-	PrivAddr	Self-Test		Self-Test		
-	DHCP-Prefix	DHCP- Prefix_R1v1.*_C		DHCP- Prefix_R1v1.*_I		
-	DHCP-Prefix- Ext	Self-Test		Self-Test		
-	6Lo	Self-Test		Self-Test		
-	Addr-Arch	Addr- Arch_R1v1.*_C		Addr- Arch_R1v1.*_I		
-	CGA	Self-Test		Self-Test		

### USGv6 Profile Supplier's Declaration of Conformity (SDoC) R1.1

### Router Capabilities

-	DNS-Client	Self-Test	Self-Test	
-	URI	Self-Test	Self-Test	
-	NTP-Client	Self-Test	Self-Test	
-	NTP-Server	Self-Test	Self-Test	
-	DNS-Server	Self-Test	Self-Test	
-	DHCP-Server	DHCP- Server_R1v1.*_C	DHCP- Server_R1v1.*_I	
-	DHCP-Server- Ext	Self-Test	Self-Test	
-	DHCP-Relay	DHCP- Relay_R1v1.*_C	DHCP- Relay_R1v1.*_I	
-	OSPF	Self-Test	OSPF_R1v1.*_I	
-	OSPF-IPsec	Self-Test	Self-Test	
-	OSPF-Auth	Self-Test	OSPF- Auth_R1v1.*_I	
-	OSPF-Ext	Self-Test	Self-Test	
-	OSPF-Trans	Self-Test	Self-Test	
-	OSPF-Graceful	Self-Test	Self-Test	
-	ISIS	Self-Test	Self-Test	
-	IS-IS-Auth	Self-Test	Self-Test	
-	IS-IS-Ext	Self-Test	Self-Test	
-	IS-IS-MT	Self-Test	Self-Test	
-	IS-IS-Ext	Self-Test	Self-Test	

### **Router Capabilities**

		Self-Test	BGP_R1v1.*_I	
- 1	BGP			
-	BGP-Reflect	Self-Test	Self-Test	
-	BGP-Graceful	Self-Test	Self-Test	
-	BGP-FlowSpec	Self-Test	Self-Test	
-	BGP-OV	Self-Test	Self-Test	
-	BGP-VPLS	Self-Test	Self-Test	
-	BGP-EVPN	Self-Test	Self-Test	
-	BGP-6VPE	Self-Test	Self-Test	
-	BGP-MVPN	Self-Test	Self-Test	
-	MPLS	Self-Test	Self-Test	
-	CE-Router	CE_Router_R1v 1.*_C	CE_Router_R1v 1.*_I	
-	VRRP	Self-Test	Self-Test	
-	IPsec	IPsec_R1v1.*_C	IPsec_R1v1.*_I	
- 1	IPsec-VPN	IPsec- VPN_R1v1.*_C	IPsec- VPN_R1v1.*_I	
- 1	IPsec-SHA-512	IPsec-SHA- 512_R1v1.*_C	IPsec-SHA- 512_R1v1.*_I	
- ;	IPsec-SHA-512- VPN	IPsec-SHA-512- VPN_R1v1.*_C	IPsec-SHA-512- VPN_R1v1.*_I	
- :	SSHV2	Self-Test	Self-Test	
-	TLS	Self-Test	Self-Test	

USGv6 Profile Supplier's Declaration of Conformity (SDoC) R1.1

Tuneling-IP Self-Test					
Tunneling-IP  Tunneling-UDP  Self-Test  Self-Test  Self-Test  DS-Lite  Self-Test  Self-Test  LWdover6  Self-Test  Self-Test  Self-Test  MAP-E  Self-Test  Self-Test  Self-Test  Self-Test  NAP-T  Self-Test  Self-Test  Self-Test  Self-Test  LUMP  Self-Test  DNS64  Self-Test	-	TLS-1.3	Self-Test	Self-Test	
- Tunneling-UDP - GRE Self-Test Self-Test - DS-Lite Self-Test Self-Test - LW4over6 Self-Test Self-Test - MAP-E Self-Test Self-Test - MAP-T Self-Test Self-Test - XLAT Self-Test Self-Test - NAT64 Self-Test Self-Test - DNS64 Self-Test Self-Test - CPE Self-Test Self-Test - UISP Self-Test Self-Test - LISP Self-Test Self-Test - Tunneling Self-Test Self-Test - DiffServ Self-Test Self-Test - DiffServ Self-Test Self-Test - DiffServ Self-Test Self-Test - DiffServ Self-Test Self-Test - NETCONF	-	Tunneling-IP	Self-Test	Self-Test	
- GRE - DS-Lite Self-Test Self-Test - LW4over6 Self-Test Self-Test Self-Test - MAP-E Self-Test Self-Test - MAP-T Self-Test Self-Test - XLAT Self-Test Self-Test Self-Test - NAT64 Self-Test Self-Test Self-Test - DNS64 Self-Test Self-Test Self-Test - LISP Self-Test Sel	-	Tunneling-UDP	Self-Test	Self-Test	
- LW4over6 Self-Test Self-Test - LW4over6 Self-Test Self-Test - MAP-E Self-Test Self-Test - MAP-T Self-Test Self-Test - XLAT Self-Test Self-Test - NAT64 Self-Test Self-Test - DNS64 Self-Test Self-Test - LISP Self-Test Self-Test - LISP Self-Test Self-Test - Tunneling Self-Test Self-Test - Tunneling Self-Test Self-Test - DlffServ Self-Test Self-Test - Self-Test Self-Test Self-Test - Self-Test Self-Test Self-Test - Self-Test Self-Test Self-Test - DlffServ Self-Test Self-Test Self-Test	-	GRE	Self-Test	Self-Test	
- LW4over6 - MAP-E Self-Test Self-Test - MAP-T Self-Test Self-Test - XLAT Self-Test Self-Test - NAT64 Self-Test Self-Test - DNS64 Self-Test Self-Test - LISP Self-Test Self-Test - LISP Self-Test Self-Test - ULSP Self-Test Self-Test - Tunneling Self-Test Self-Test - Tunneling Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test	-	DS-Lite	Self-Test	Self-Test	
- MAP-E - MAP-T Self-Test Self-Test - XLAT Self-Test Self-Test - NAT64 Self-Test Self-Test - DNS64 Self-Test Self-Test - DNS64 Self-Test Self-Test - LISP Self-Test Self-Test - LISP Self-Test Self-Test - SNMP Self-Test Self-Test - Tunneling Self-Test Self-Test - DiffSery Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test	-	LW4over6	Self-Test	Self-Test	
- XLAT Self-Test Self-Test - NAT64 Self-Test Self-Test - DNS64 Self-Test Self-Test - 6PE Self-Test Self-Test - LISP Self-Test Self-Test - SNMP Self-Test Self-Test - Tunneling Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test	-	MAP-E	Self-Test	Self-Test	
- NAT64 Self-Test Self-Test  - DNS64 Self-Test Self-Test  - 6PE Self-Test Self-Test  - LISP Self-Test Self-Test  - Tunneling Self-Test Self-Test  - DliffServ Self-Test Self-Test  - NETCONF Self-Test Self-Test Self-Test  Self-Test Self-Test Self-Test Self-Test	-	МАР-Т	Self-Test	Self-Test	
- NAT64 - DNS64 - Self-Test - 6PE - Self-Test - LISP - Self-Test - SNMP - Tunneling - DiffServ - NETCONF - Self-Test	-	XLAT			
- DNS64 - 6PE Self-Test Self-Test - LISP Self-Test Self-Test - SNMP Self-Test Self-Test - Tunneling Self-Test Self-Test - DiffServ Self-Test Self-Test - NETCONF Self-Test Self-Test Self-Test	-	NAT64			
- LISP Self-Test Self-Test  - SNMP Self-Test Self-Test  - Tunneling Self-Test Self-Test  - DiffServ Self-Test Self-Test  - NETCONF Self-Test Self-Test Self-Test	-	DNS64			
- LISP - SNMP Self-Test Self-Test - Tunneling Self-Test Self-Test - DiffServ - NETCONF Self-Test Self-Test Self-Test Self-Test Self-Test Self-Test	-	6PE			
- Tunneling  Self-Test  Self-Test  DiffServ  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test	-	LISP			
- Tunneling  - DiffServ  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test  Self-Test	-	SNMP			
- DiffServ  Self-Test Self-Test Self-Test Self-Test	-	Tunneling			
- NETCONF Self-Test Self-Test	-	DiffServ			
Self-Test Self-Test	-	NETCONF			
	-	SSM	Self-Test	Self-Test	

### **Router Capabilities**

NIST.SP.500-281Ar1s

-	PIM-SM	Self-Test	Self-Test	
-	PIM-SM-IPsec	Self-Test	Self-Test	
-	PIM-SM-BiDir	Self-Test	Self-Test	
-	Multicast	Multicast_R1v1. *_C	Multicast_R1v1. *_I	
-	Multicast	Multicast_R1v1. *_C Self-Test		

# **Application Capabilities**

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFO	RMANCE	INTEROPERABI	LITY/FUNCTIONAL	NOTES	
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
-	App-Serv=			APP- ONLY_R1v1.*_F			
-	Link =			Self-Test			

# NPP Capabilities

[10] PRODUC	T ID/ STACK ID				CAPABILITY SUMMARY		
	PAN-	OS 11.0/	11.0.2		USGv6-r1:NPP+FW+IDS+ISP+Link=Ethernet		
[11]	CAPABILITY		RMANCE	INTEROPERABILI		NOTES	
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F			
PASS	FW	FW_R1v1.*_C	UNH-IOL/36967				
-	APFW	Self-Test					
PASS	IDS	FW_R1v1.*_C	UNH-IOL/36968				
PASS	IPS	FW_R1v1.*_C	UNH-IOL/36969				
PASS	Link = Ethernet	Self-Test	Self Declaration				

### **Switch Capabilities**

[10] PRODUC	T ID/ STACK ID					CAPABILITY SUMMARY		
[11]	CAPABILITY	CONFOR	MANCE	INTEROPERABILITY	//FUNCTIONAL			
SUPPORTED CAPABILITY		TEST SELECTION	RESULT ID	TEST SELECTION	RESULT ID	NOTES		
-	IPv6-ONLY			IPv6- ONLY_R1v1.*_F				
-	DHCPv6-Guard	Self-Test		Self-Test				
-	RA-Guard	Self-Test		Self-Test				
-	MLD-Snooping	Self-Test		Self-Test				
-	Link =	Self-Test		Self-Test				

1	CONTACT INFORMATION	Supplier name, email and signature (digital recommended). Include printed name and date if wet ink signed.  Accredited laboratory name, email and signature (digital recommended). Include printed name and date if wet ink signed.
2	PRODUCT VERSION TESTED	Firmware/ software version of product declared
3	PRODUCT ID	Suppliers concise name for product declared
4	PRODUCT FAMILY	Applicable hardware or software with an unmodified IPv6 stack from "PRODUCT VERSION TESTED"
5	UNITARY OR COMPOSITE	Indicate if this is a unitary or composite SDoC. If composite is checked, composite SDoC must be linked in section 6.
6	REF	Reference number to profile(s) reference in this SDoC
	SUPPLIER	Supplier name
	PRODUCT ID/STACK ID	Product ID must match field 3. As there may be more than one unique IPv6 stack, stack ID identifies particular stack described in CAPABILITY SUMMARY. Each unique stack requires a CAPABILTY SUMMARY.
	CAPABILITY SUMMARY	The strong notation as described in NIST-SP-500-267Ar1 that describes the product capabilities of the given stack.
	COMPOSITE SDOC LINK	URL link to composite SDoC referenced.
7	USGV6-CAPABLE REQUIREMENTS	Refer to section 5 in NIST-SP-500-267Br1 for CSS strings referenced in this section. Check the appropriate box if the product meets the requirements.
8	PROFILE(S) REFERENCED	Profile(s) referenced in the SDoC.
9	SUPPLEMENTARY ATTESTATIONS	Attestations made by the supplier. Check all that apply.
10	PRODUCT ID/STACK ID	PRODUCT ID/STACK ID for stack documented on given page.
	CAPABILITY SUMMARY	CAPABILITY SUMMARY for stack documented on given page.
11	SUPPORTED CAPABILITY	"PASS" – All requirements of the capability have been met
		"NOTES" – See notes for details regarding the level of support for this capability
		"X" – Capability not supported
		BLANK – No declaration for this capability
	CAPABILITY	IPv6 Capability as described in NIST-SP-500-267Ar1.
	TEST SELECTION	Test Selection Tables version of capabilities with existing test programs. Capabilities without an existing test program are indicated with "Self-Test"
	RESULT ID	minimum and the contract
	NEGULI ID	Abbreviation of accredited laboratory and unique identifier of test result. Capabilities with "Self-Test" can be self-declared writing "Self Declaration" in the cell.
	NOTES	The cell must be filled out if "NOTE" is indicated for SUPPORTED CAPABILITY. Suppliers may use notes to clarify
	NOTES	unsupported features or non-passing results.
		unsupported realures or non-passing results.

# SUPPLIER GENERAL NOTES