| | | | ormity for USGv6 Prod | ucts | | | USGv6-v1 SDOC-v1.10 Page 1 | | | | | |
|-------------|---|------------------------------------|-------------------------|---|-------------------|--|---|--|--|--|--|--|
| 1 | | | ing Conformity: | | | USGv6 Profile Version 1.0, July 2008. (NIST SP500-267) | | | | | | |
| 2 | Product Identifier: Nexus 93180YC-EX | | | | | | | | | | | |
| 3 | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | | | | | | | | | | | |
| | isco Systems, Inc. 70 West Tasman Dr. | | | | | | | | | | | |
| | st Tasman L se, CA 95134 | | | | | | | | | | | |
| | Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested. | | | | | | | | | | | |
| 4 | NX-OS 9.2(3) | | | | | | | | | | | |
| | 11/1-00 0.2(0) | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 5 | | | | | | | Check Product Family attestation below. | | | | | |
| Nexus 9 | 93180YC-EX | • | , | | | , | xus 93180YC-EX-24, 93108TC-EX-24, Nexus 93180YC-FX, | | | | | |
| | Nexus 93108TC-FX, Nexus 9348GC-FXP, Nexus 9336C-FX2, Nexus 93240YC-FX2, Nexus 93360YC-FX2, Nexus 93216TC-FX2 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 6 | | | | · · · · · · · · · · · · · · · · · · · | • | | capabilities below and include a detailed test result | | | | | |
| | summary). | e.g. example | | v6-v1-Host: IPv6-Base+Addr-Arch | | | | | | | | |
| | | | USGv6 | -v1-Router: IPv6-Base+Addr-Ar | ch+SLAAC+M | cast+EGW+ | Link = Ethernet | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 7 | Salf Canta | inad or Can | nposite SDOC? (Must i | indicate and | | | | | | | | |
| | | | • • | · · | | | | | | | | |
| YES | All of the declared USGv6 capabilities of this product are Some or all of the USGv6 capabilities of this product are provided by the use and/or integration of umodified components that have USGv6 SDOCs. All of the relevant referenced SDOCs are identified in section 8 and attached. This product's page 2 will indicate | | | | | | | | | | | |
| | Í | Ü | • | are provided by specific re | | | | | | | | |
| _ | A 1 Per 1 | D 1 " | | " 0 1 1:1/4 1:15 | | 1 11 1 11 | | | | | | |
| 8 | | | is / Attachments: (List | | | erenced and attached test results in the case of composite products). | | | | | | |
| | Componer | t Supplier | | Product ID: | Stack ID: | | Notes: | | | | | |
| [1] | | | | | | | | | | | | |
| [2] | | | | | | | | | | | | |
| [3] | | | | | | | | | | | | |
| [4] 9 | Cupplomo | atomi Attact | stions (Anguer all) | | | | | | | | | |
| 9 | | | ations (Answer all). | | | | | | | | | |
| | Yes | | | environments.That is, no claimed capabilitien In stack (6 and 4)network environment. | es are 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 | | | t for each unique IPv6 stack in the product | | 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 | | | | | | |
| | | stacks/ports no reported are ex | | nd how their Ipv6 capabilities differ from the | ose | | | | | | | |
| | | reported are ex | хріашей. | | | | | | | | | |
| | re identical and unmodified for all the products cited above. | | | | | | | | | | | |
| 10 | Cianatura | | 1/1/ | 1 11 0010 | | | | | | | | |
| 10 | Signature | | Ashlee F | Date | December 11, 2019 | | | | | | | |
| | Print Name | / Title | Ashlee Panhii | ırana, IPv6 Team Lead | • | | | | | | | |
| Soo inot- | ctions for fields | 1 12 on Page | | irana, ii vo ream Leau | | | | | | | | |
| วฮฮ เมริเโน | เบเบบบอ เปเ แษเนร | i-iz uii Paye 4 | т. | | | | | | | | | |

| | | ers Declaration of Conformity for USGv6 Pro | ducts: Declared | d Capab | | | Results Summary | 1 | | Gv6-v1 SDOC-v1.10 Pag | | | |
|--|--|---|--------------------------|------------|--|----------|---|---|---|--|--|--|--|
| Product Id: | | Nexus 93180YC-EX | Stack Id: | | | | | NX-OS 9.2(3) | | | | | |
| | | | Context / Supported Capa | | | bilities | | USGv6 Testing Program Results | | | | | |
| Spec / | | | Configuration | | | | Test Suite | Test Lab / Result ID, Note #, or | | Test Lab / Result ID, Note #, o | | | |
| eference | Section | USGv6-v1 Profile Requirements | Option | Host | Router | NPD | Conformance/NPD | Component Ref | Test Suite Interoperability | Component Ref | | | |
| 2500-267 | 6.1 | IPv6 Basic Requirements | | | | | | | | | | | |
| | | support of IPv6 base (IPv6;ICMPv6;PMTU;ND) | IPv6-Base | | Р | | Basic_v1.*_C | UNH-IOL/30683 | Basic_V1.*_I | UNH-IOL/30684 | | | |
| | | support of PMTU Discovery Protocol requirements | PMTU | | P | | Basic_v1.*_C | UNH-IOL/30683 | Basic_V1.*_I | UNH-IOL/30684 | | | |
| | | support of stateless address auto-configuration | SLAAC | | P | | SLAAC-V1.*_C | UNH-IOL/30683 | SLAAC-V1.*_I | UNH-IOL/30684 | | | |
| | | support of Creation of Global Addresses | SLAAC - c(M) | | P | | SLAAC-V1.*_C | UNH-IOL/30683 | SLAAC-V1.*_I | UNH-IOL/30684 | | | |
| | | support of SLAAC privacy extensions. | PrivAddr | | | | Self Test | | Self Test | | | | |
| | | 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 | | | | |
| 2500-267 | 6.6 | Addressing Requirements | | | | | | | | | | | |
| | | support of addressing architecture reqts | Addr-Arch | | Р | | Addr_Arch_v1.*_C | UNH-IOL/30685 | Addr_Arch_v1.*_I | UNH-IOL/30686 | | | |
| | | 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 | ļ | IPsecv3_v1.*_I | | | | |
| | | support for automated key management | IKEv2 | | | | IKEv2_v1.*_C | | IKEv2_v2.*_I | ļ | | | |
| 500 00= | 0.44 | support for encapsulating security payloads in IP | ESP | | | _ | ESPv3_v1.*_C | | ESP_v1.*_I | | | | |
| P500-267 | 6.11 | Application Requirements | DNIC OF 1 | | | | C-# T | | C-# T | | | | |
| | | support of DNS client/resolver functions | DNS-Client | | | <u> </u> | Self Test | ļ | Self Test | | | | |
| | | support of Socket application program interfaces | SOCK | | | - | Self Test | | Self Test | | | | |
| | | support of IPv6 uniform resource identifiers | URI DNS-Server | | | | Self Test Self Test | | Self Test Self Test | | | | |
| | | support of a DNS server application support of a DHCP server application | DHCP-Server | | | | Self Test | | DHCP_Serv_v1.*_I | | | | |
| 500 007 | | | DHCP-Server | | | | Sell Test | | DHCP_Serv_V1."_I | | | | |
| 500-267 | 6.2 | Routing Protocol Requirements support of the intra-domain (interior) routing protocols | IOW | | N | | C-# T+ | | OSPFv3 v1.* I | LINII LIOI /2000E NI-t- 4 | | | |
| | <u> </u> | support of the intra-domain (interior) routing protocols support for inter-domain (exterior) routing protocols | IGW EGW | | P | | Self Test Self Test | | BGP v1.* I | UNH-IOL/30695, Note 1 UNH-IOL/30696 | | | |
| 500-267 | 6.4 | Transition Mechanism Requirements | EGW | | P | | Sell Test | | BGP_V1."_I | UNH-IUL/30696 | | | |
| 300-207 | 0.4 | support of interoperation with IPv4-only systems | IPv4 | | | | Self Test | | Self Test | | | | |
| | | support of functional IPv6 over IPv4 MPLS services | 6PE | | | | Self Test | | Self Test | | | | |
| 500-267 | 6.8 | Network Management Requirements | OI L | | | | OCH TEST | | Self Test | | | | |
| 300-201 | 0.0 | support of network management services | SNMP | | | | Self Test | | Self Test | | | | |
| 2500-267 | 6.9 | Multicast Requirements | Citim | | | | 50m 700t | | CON TOOL | | | | |
| | | support of basic multicast | Mcast | | Р | | Self Test | Self Declaration | | | | | |
| | | 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 | | | | |
| 500-267 | 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 | | | |
| | | | | | | | | | | | | | |
| | <u> </u> | (repeat as needed) support of link technology | Link= | | | <u> </u> | | l | L | <u> </u> | | | |
| 12 | Х | < 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 of | f support for USGv6-v1 Requirements for capability. | | | | Color | Indication of USGv6-v1 Recommended Level of Support for device type / stack role. | | | | | | |
| | | SDOC makes no declaration for this capability. | | | Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile. | | | | | | | | |
| Р | | | | | | | | Indicates capability that is recommended as mandatory (are maintain week) in the Good-V-11 lone. Indicates capability that is unusal for a given device type / stack role. Do not select without careful analysis. | | | | | |
| N | | | | oon obilit | | | Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile. | | | | | | |
| X | | See notes page for details on the level of support of USGv6-v1 reequirements for this capability. USGv6 capability not supported in product. | | | | | | indicates capability that is reit optional / octobional by the recommedations of the OSGVo-V1 Profile. | | | | | |
| ^ | U3GV6 | capability not supported in product. | | | | _ | | | | | | | |
| | | 100.05 | | 161 41 | | | | | 1.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | | | | |
| 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. | | | | | | | | | | ability or result on attached page | | | |
| | | | | | | | | f - Supplier / Product / Stack ID of disting | | | | | |

| Suppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary USGv6-v1 SDOC-v1.10 Page 3 | | | | | | | | | | | |
|--|---------------------|------------|---|-------------------------|-------|--------------------|-----|-------------------------------|------------------------------------|--------------------------------|----------------------------|
| Field | Product Id: | | Nexus 93180YC-EX | | | Stack lo | | | NX-OS 9.2(3) | | |
| 13 | | | | Context / | Suppo | orted 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 |
| 1 | RFC4552 | | Authentication/Confidentiality for OSPFv3 | IGW | | C(M) | | | | OSPFv3_v1.*_I | UNH-IOL/30695, Note 1 |
| | | | | | 1 | O(W) | | | | 001110_111 | CHIT-IOL/GOODS, NOIC 1 |
| Discussion | 1: | The RUT do | pes not support RFC 4552 for authentication or encryption | 1. | | | | | | | |
| 2 | | | | | | | | | | | |
| Discussion: | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| Discussion | 1: | | , | | | , | 1 | | | | |
| 9 | | | | | | | | | | | |
| Discussion | 1: | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| Discussion: | | | | | | | | | | | |
| Vendor's General Notes / Discussion about this Product / Stack's capabilities: | | | | | | | | | | | |
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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 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 network administrators of potential configuration options relevant to USGv6 interoperability. Check all that apply.

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.