| Suppliers Declaration of Conformity for USGv6 Products USGv6-v1 SDOC-v1.10 Page | | | | | | | | | | | |
|--|--|--|---|-----------------------|---|--|--|--|--|--|--|
| 1 | The Document Requi | | | | | USGv6 Profile Version 1.0, July 2008. (NIST SP500-267) | | | | | |
| 2 | Product Identifier: | | C | isco Catal | o Catalyst 9400 Series Switches | | | | | | |
| 3 | 3 Supplier's Name, Address and SDOC Contact Details | | | | | | | | | | |
| Cisco S | ystems, Inc. | | | | | | | | | | |
| 170 We | 170 West Tasman Dr. | | | | | | | | | | |
| San Jos | San Jose, CA 95134 USA | | | | | | | | | | |
| 4 | Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested. | | | | | | | | | | |
| | 16.9.1 | | | | | | | | | | |
| | | | | | | | | | | | |
| 5 | Product Family (other products using same IPv6 stack(s) to which these results are declared to apply). Check Product Family attestation below. | | | | | | | | | | |
| | C9400-SUP-1, C9400-SUP-1XL, C9407R, C9410R | | | | | | | | | | |
| | | | | | | | | | | | |
| 6 | | | nct IPv6 stack in the product provid 6v6-v1-Host: IPv6-Base+Addr-Arch+ | _ | | v6 capabilities below and include a detailed test result +Link=Ethemet. | | | | | |
| | 10000000 | | outer: IPv6-Base+Addr-Arch+EGW | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 7 | Self Contained or Composite SDOC? (Must indicate one). | | | | | | | | | | |
| YES | All of the declared USGv6 capa | abilities of this product are | Some or all of the USGv6 capal | pilities of this prod | duct are provide | d by the use and/or integration of umodified components that have their own unique | | | | | |
| | addressed by orginal test resul | Its reported in this SDOC. | USGv6 SDOCs. All of the relev | vant referenced S | SDOCs are ident | ified 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 Declaratio | ns / Attachments: (List | supplier & product-id/stack-id for re | ferenced and | d attached : | test results in the case of composite products). | | | | | |
| | Component Supplier | | Product ID: | Stack ID: | | Notes: | | | | | |
| [1] | | | | | | | | | | | |
| [2] | | | | | | | | | | | |
| [3] | | | | | | | | | | | |
| [4] | | | | | | | | | | | |
| 9 | Supplementary Attes | tations (Answer all). | | | | | | | | | |
| | Yes This product is | vironments.That is, no claimed capabilities are | Yes | This product is | s fully functional in IPv6 only environments. That is, no claimed capabilities are | | | | | | |
| | | is product is operated in a dual si | tack (6 and 4) network environment. | . 33 | | is product is deployed in a network environment that does not support lpv4. | | | | | |
| | Yes This SDOC co | ontains a capabilities test report f | or each unique IPv6 stack in the product. If not, the | Yes | All of the products listed in the product family in section 5 are implemented such that their USGv6 | | | | | | |
| | | stacks/ports not covered are documented, and how their Ipv6 capabilities differ from those | | | | capabilities are identical in form and function across the entire product family. The specific | | | | | |
| | reported are ex | reported are explained. | | | 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 | | | | | | |
| | | | | | ' | mily are provided in this SDOC. The SDOC attests that these tested USGV6 identical and unmodified for all the products cited above. | | | | | |
| <u> </u> | | | | | - spacuoodi o | and the production of the same | | | | | |
| 10 | Signature | Darryll Gadson | | Date | | 26-Nov-18 | | | | | |
| | Print Name / Title | Down II Cod 1 1 - | ISCOR Ciana Sunt- | | <u> </u> | | | | | | |
| | Fillit Name / Hitle | Darryll Gadson, Lead I | USGVO CISCO SYSTEMS | | | | | | | | |
| See instruc | See instructions for fields 1-12 on Page 4. | | | | | | | | | | |

| roduct ld | | ers Declaration of Conformity for USGv6 Pro Cisco Catalyst 9400 Series S | | • | Stack lo | ų. | | | 16.9.1 | | | |
|----------------------|--|--|-------------------------|------------|-----------|---|---|---|--|------------------------------------|--|--|
| i roductiu. | | Cisco Catalyst 9400 Series 3 | | | | | | | | | | |
| | | | Context / | Suppo | rted Capa | bilities | | USGv6 Testing F | rogram Results | | | |
| Spec/ | 0 | USS S. A Burgly Burgly Burgly | Configuration | | | NDD | Test Suite | Test Lab / Result ID, Note #, or | T 1 O No 1 - 1 - 1 - 1 - 1 - 1 - 1 1 1 1 | Test Lab / Result ID, Note #, | | |
| eference P500-267 | | USGv6-v1 Profile Requirements IPv6 Basic Requirements | Option | Host | Router | NPD | Conformance/NPD | Component Ref | Test Suite Interoperability | Component Ref | | |
| 300-207 | 6.1 | support of IPv6 base (IPv6;ICMPv6;PMTU;ND) | IPv6-Base | | | | Basic_v1.*_C | UNH-IOL/29227 | Basic V1.* I | UNH-IOL/29229 | | |
| | | support of PMTU Discovery Protocol requirements | PMTU | | Р | | Basic_v1.*_C | UNH-IOL/29227 | Basic_V1I | UNH-IOL/29229 | | |
| | | support of FWHO Discovery Flotocorrequirements support of stateless address auto-configuration | SLAAC | | P | | SLAAC-V1. C | UNH-IOL/29227 | SLAAC-V1. I | UNH-IOL/29229 | | |
| | | support of stateless address address addresses | SLAAC - c(M) | | P | | SLAAC-V1C | UNH-IOL/29227 | SLAAC-V1. I | UNH-IOL/29229 | | |
| | | support of Cleation of Global Addresses support of SLAAC privacy extensions. | PrivAddr | | | | Self Test | ON 1-10L/29221 | Self Test | ON FIOL/29229 | | |
| | 1 | support of Stateful (DHCP) address auto- | DHCP-Client | 1 | | | DHCP_Client_v1.*_C | | DHCP_Client_v1.*_I | | | |
| | 1 | support of automated router prefix delegation | DHCP-Prefix | 1 | | | Self Test | | Self Test | | | |
| | | support of neighbor discovery security extensions | SEND | | | | Self Test | | Self Test | | | |
| 2500-267 | 6.6 | Addressing Requirements | | | | | | | | | | |
| 000 201 | 0.0 | support of addressing architecture regts | Addr-Arch | | Р | | Addr Arch v1.* C | UNH-IOL/29228 | Addr Arch v1.* I | UNH-IOL/29230 | | |
| | | support of addressing architecture requisions support of cryptographically generated addresses | CGA | | | | Self Test | UNH-10L/29220 | Self Test | UNH-IOL/29230 | | |
| 2500-267 | 6.7 | IP Security Requirements | CGA | | | | Sell Test | | Sell Test | | | |
| -300-207 | 0.7 | support of the IP security architecture | IPsecv3 | | | | IDcoov2 v4 * C | | IPsecv3 v1.* I | | | |
| | 1 | support of the IP security architecture support for automated key management | IKEv2 | | | | IPsecv3_v1.*_C IKEv2_v1.*_C | | IKEv2_v2.*_I | + | | |
| | | support for automated key management support for encapsulating security payloads in IP | ESP | | | - | ESPv3 v1.* C | | ESP_v1.*_I | 1 | | |
| 2500-267 | 6 1 1 | Application Requirements | ESP | | | | ESFVS_VIC | | ESF_VII | | | |
| 300-207 | 0.11 | support of DNS client/resolver functions | DNS-Client | | | | Self Test | | Self Test | | | |
| | | support of BNS client/resolver functions 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 | | | | Self Test | | DHCP Serv v1.* I | | | |
| P500-267 | 6.2 | Routing Protocol Requirements | Diloi -ocivoi | | | | OCH TOSE | | BIIOI GEIV VII. I | | | |
| 300-207 | 0.2 | support of the intra-domain (interior) routing protocols | IGW | | Р | | Self Test | | OSPFv3_v1.*_I | UNH-IOL/29226 | | |
| | | support or inter-domain (exterior) routing protocols | EGW | | P | | Self Test | | BGP_v1.*_I | UNH-IOL/29225 | | |
| 2500-267 | 6.4 | Transition Mechanism Requirements | LOW | | | | Gen Test | | BGI _VII | ON 1-101/23223 | | |
| 300-201 | 0.4 | support of interoperation with IPv4-only systems | IPv4 | | | | Self Test | | Self Test | | | |
| | | support of funneling IPv6 over IPv4 MPLS services | 6PE | | | | Self Test | | Self Test | | | |
| P500-267 | 6.8 | Network Management Requirements | 01 L | | | | 2011 1001 | | Self Test | | | |
| 300-207 | 0.0 | support of network management services | SNMP | | Р | | Self Test | Self Declaration | Self Test | Self Declaration | | |
| P500-267 | 6.9 | Multicast Requirements | OTAIVII | | | | OCH TOSE | OCH Decidration | OCH TOST | Gen Bedardhon | | |
| 000 201 | 0.0 | support of basic multicast | Mcast | | Р | | Self Test | Self Declaration | | | | |
| | | full support of multicast communications | SSM | | | | Self Test | Con Bediaration | Self Test | | | |
| P500-267 | 6.10 | Mobility Requirements | | | | | | | | | | |
| | | support of mobile IP capability. | MIP | | | | Self Test | | Self Test | | | |
| | | support of mobile network capabilities | NEMO | | | | Self Test | | Self Test | | | |
| P500-267 | 6.3 | Quality of Service Requirements | | | | | | | | | | |
| | | support of Differentiated Services capabilities | DS | | | | Self Test | | Self Test | | | |
| P500-267 | 6.12 | Network Protection Device Requirements | | | | | | | | | | |
| 000 201 | 0 | support of common NPD regts | NPD | | | | N1 N2 N3 N4_v1.3 | | | | | |
| | | support of basic firewall capabilities | FW | | | | N1_FW_v1.3 | | | | | |
| | 1 | support of application firewall capabilities | APFW | | | | Self Test | | | 1 | | |
| | <u> </u> | support of application filewall capabilities | IDS | | | | N3 IDS v1.3 | | | 1 | | |
| | 1 | support of intrusion detection capabilities | IPS | | | | N4 IPS v1.3 | | | 1 | | |
| P500-267 | 6.5 | Link Specific Technologies | | | | | 0_41.0 | | | | | |
| 300-201 | 0.0 | support of robust packet compression services | ROHC | | | | Self Test | | Self Test | | | |
| | 1 | support of link technology [O:1] | | | Р | | Self Test | Self Declaration | Self Test | Self Declaration | | |
| | 1 | Support of mint toolinology [O.1] | | | | | 25 1000 | | JJ 100t | | | |
| | | (repeat as needed) support of link technology | l ink= | | | | | | | | | |
| | | , | | | | | 1.000 | " ! ! 0 5 4 | | | | |
| 12 | | Check HERE if this stack's DOC includes a | additional inform | mation a | ibout tes | ted cap | abilities and options of | n an attached page 3 of notes. | | | | |
| Level | Level | f support for USGv6-v1 Requirements for capability. | | | | Color | Indicat | ion of USGv6-v1 Recommended Lev | el of Support for device t | vne / stack role | | |
| LEVEI | | | | | | COIOI | Indication of USGv6-v1 Recommended Level of Support for device type / stack role. Indicates capability that is recommendend as mandatory (unconditional MUST) in the USGv6-v1 Profile. | | | | | |
| | | SDOC makes no declaration for this capability. | | | | Indicates capability that is recommended as mandatory (unconditional wides) in the 03GVV-V1 Frome. Indicates capability that is unusal for a given device type / stack role. Do not select without careful analysis. | | | | | | |
| P | | required tests of USGv6-V1 requirements for these cap | | | | | | | | | | |
| N | | | | | | | Indicates capability that is left optional / ocnditional by the recommedations of the USGv6-v1 Profile. | | | | | |
| Χ | USGv6 | capability not supported in product. | | | | | | | | | | |
| | | | | | | | | | | | | |
| ot Suito | Specific l | USGv6 Test suite used for test. See: http://www.antd.n | ist.gov/usgv6/test- | specificat | ions.html | | | Note # - reference to a | a detailed note about this o | apability or result on attached pa | | |
| Si Juile - | | | | | | | i | | | | | |
| | esult ID | Abbreviation of accredited laboratory and its local iden | tifier for this test re | esult. | | | Component Ref | f - Supplier / Product / Stack ID of dist | inctly tested component the | at provides this capability. | | |

| Suppliers Declaration of Conformity for USGv6 Products: Notes Page and Detailed Test Results Summary | | | | | | | | USGv | 6-v1 SDOC-v1.10 Page 3 | | |
|--|---------------------|------------|--|-------------------------|----------|------------------------|-----|-------------------------------|------------------------------------|--------------------------------|----------------------------|
| Field Product Id: Stack Id: | | | | | | | | | | | |
| 13 | | | | Context / | Suppo | 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 |
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| Discussion | 1: | | | | 1 | ı | ı | | T | I | |
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| Discussion | 1: | | | | | | | | | | |
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| Discussion | 1: | | | 1 | | | | | | | |
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| 10 | | | | | | | | | | | |
| Discussion | · | | | | | | | | | | |
| Vendor's C | eneral Notes / | Discussion | n about this Product / Stack's capabilities: | | | | | | | | |
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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. |