Supplier Declaration of Conformity for USGv6 Products

The Document Requiring Conformity:

Supplier Name, Address and SDOC Contact Details

Joseph M. Jackson
Advanced Services Engineer
Arista Networks, Inc.

Product as Tested/Declared: Product Identifier, version/revision information, details of configuration tested.

EOS 4.23.1FX

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


Chassis: [DCS-720X, DCS-720Y, DCS-720Z]

Line Cards: [7300X-32Q-LC, 7300X-64S-LC, 7300X-64T-LC, DCS-7300X3-32C-L, DCS-7300X3-48YC-LC]

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: USGv6/v1 Host: [IPv6-Base+Addr-Base+IPsec-3+KEV2+SLAAC+Link=Ethernet].

USGv6/v1 Router: [IPv6-Base+Addr-Base+SLAAC+Link=Ethernet]

Self-Contained or Composite SDOC? (Must indicate one):

YES

All the declared USGv6 capabilities of this product are encompassed by original test results reported in this SDOC

Additional Declarations/Attachments: (List supplier & product-id/stack-id for referenced and attached test results in the case of composite products).

Component Supplier

Product ID:

Stack ID:

Notes:

Supplementary Attestations (Answered):

Yes

The product is fully functional in dual stack environments. Thus, no claimed capabilities are invalidated when the product is operated in a dual stack environment.

Yes

This SDOC contains a description and test report for each unique IPv6 stack in the product. That is, the test reports are performed on each stack separately and independently. The test results for each stack are detailed in the SDOC.

Supplementary Reference:

Arista DCS-7050X Series

Signature

Joseph M. Jackson

Print Name / Title

Arista Networks Inc. Advanced Services Engineer

Date

13-Nov-20
### Suppliers Declaration of Conformity for USGv6 Products: Declared Capabilities and Test Results Summary

<table>
<thead>
<tr>
<th>Spec / Reference</th>
<th>Section</th>
<th>USGv6-v1 Profile Requirements</th>
<th>Configuration</th>
<th>Host</th>
<th>Router</th>
<th>NPD</th>
<th>Test Suite</th>
<th>Test Lab / Result ID, Note #, or Component Ref</th>
<th>Test Suite Interoperability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SP500:267</strong></td>
<td>5.1</td>
<td>IPv6 Basic Requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IPv6 core (SCAP at MADDING)</td>
<td>Basic v7 = C</td>
<td>UNH-IOL/31903</td>
<td>Basic V1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of PMTU Discovery Protocol requirements</td>
<td>Basic v7 = C</td>
<td>UNH-IOL/31902</td>
<td>Basic V1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of automated address auto-configuration</td>
<td>SLAAC</td>
<td>UNH-IOL/31902</td>
<td>SLAAC-V1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of Link State (IP) address auto-configuration</td>
<td>SLAAC</td>
<td>UNH-IOL/31902</td>
<td>SLAAC-V1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of Creation of Global Addresses</td>
<td>SLAAC-C</td>
<td>UNH-IOL/31904</td>
<td>SLAAC-CV1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of Link State (IP) address auto-configuration</td>
<td>SLAAC</td>
<td>UNH-IOL/31902</td>
<td>SLAAC-V1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.6</td>
<td>Addressing Requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of address resolution protocols</td>
<td>DNS</td>
<td>UNH-IOL/31905</td>
<td>DNS-Server = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of address resolution protocols</td>
<td>DNS</td>
<td>UNH-IOL/31905</td>
<td>DNS-Server = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.7</td>
<td>IP Security Requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IP security architecture</td>
<td>IPsec</td>
<td>UNH-IOL/31903</td>
<td>IPsec v3 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IP security architecture</td>
<td>IPsec</td>
<td>UNH-IOL/31903</td>
<td>IPsec v3 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IP security architecture</td>
<td>IPsec</td>
<td>UNH-IOL/31903</td>
<td>IPsec v3 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IP security architecture</td>
<td>IPsec</td>
<td>UNH-IOL/31903</td>
<td>IPsec v3 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of IP security architecture</td>
<td>IPsec</td>
<td>UNH-IOL/31903</td>
<td>IPsec v3 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5.11</td>
<td>Link Security Requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of DSCP (differentiated services)</td>
<td>DSCP</td>
<td>UNH-IOL/31904</td>
<td>DSCP v1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of DSCP (differentiated services)</td>
<td>DSCP</td>
<td>UNH-IOL/31904</td>
<td>DSCP v1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of DSCP (differentiated services)</td>
<td>DSCP</td>
<td>UNH-IOL/31904</td>
<td>DSCP v1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of DSCP (differentiated services)</td>
<td>DSCP</td>
<td>UNH-IOL/31904</td>
<td>DSCP v1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Support of DSCP (differentiated services)</td>
<td>DSCP</td>
<td>UNH-IOL/31904</td>
<td>DSCP v1 = 1</td>
<td>UNH-IOL/31904</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Suppliers Declaration of Conformity for USGv6-v1 SDOC-v1.10 Page 2

<table>
<thead>
<tr>
<th>Product ID: Arista DCS-7050X Series</th>
<th>Stack Id: EOS 4.23.1FX</th>
</tr>
</thead>
</table>

### Check Here if this stack’s DOC includes additional information about tested capabilities and options on an attached page 3 of notes.

### Level of support for USGv6-v1 Requirements for capability.

| Level | Description | Color | Indication of USGv6-v1 Recommended Level of Support for device type / stack role.
|-------|-------------|-------|--------------------------------------------------|
| Blank | DOC makes no declaration for this capability. | | Indicates capability that meets USGv6-v1 Profile.
| P     | Passed required tests of USGv6-v1 requirements for these capabilities. | Green | Indicates capability that is optional for a given device type / stack role. Do not select without careful analysis.
| X     | DS8000 capability not supported in product. | Orange | Indicates capability that is left optional / conditional by the recommendations of the USGv6-v1 Profile.

### Test Suite / Reference

- **Section:** Abbreviation of accredited laboratory and test identifier for this test result.
- **Component Ref:** Component Ref. / Supplier / Product / Stack Id of distinctly tested component that provides this capability.

### Test Lab / Result ID

- **Note # -** Reference to a detailed note about this capability or result on attached pages.
<table>
<thead>
<tr>
<th>Field</th>
<th>Product Id:</th>
<th>Stack Id:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note #</td>
<td>Spec / Reference</td>
<td>Context / Configuration Option</td>
</tr>
<tr>
<td>1</td>
<td>USGv6-v1 Profile Requirements</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Discussion:

Vendor's General Notes / Discussion about this Product / Stack's capabilities:
### Suppliers Declaration of Conformity for USGv6 Description and Instructions

**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 original 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.  
6 | **USGv6 Capability Summary:** The USGv6 stack implementation summary as identified by the 'v' 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 distinct products, list the Supplier & Product ID/Stack IDs referenced and attach those original SDOCs to this one.  
8 | **Additional Declarations / Attachments:** 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.  
10 | **Signature Block:** Wet ink signature of the responsible product manager, dated. Printed name and position title on the line below.  
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.  
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.  
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. 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](http://www.antd.nist.gov/usgv6/testing.html), and NIST SP 500-267 USGv6 Testing Program Users Guide available at the website.