USGv6 Test Selection Tables

IPv6 Stateless Address Autoconfiguration (SLAAC)

I2-Interoperability: SLAAC-R1v1.3

Applicable Profile: NIST SP 500-267B Revision 1 USGv6 Profile – November 2020.

Test Specification Id:


Interoperability Partner Requirements:

- Any host or router claiming compliance with the USGv6 profile MUST demonstrate evidence of interoperability with three or more independent implementations of IPv6. The three implementations must include at least one Host and at least one Router.
- Target nodes must not change once testing has begun.

Core-Interoperability

If your Device Under Test (DUT) Type is Host:

- DUT = TAR-Host1 for all tests.
- TAR-Host2 = Independent Implementation Device B
- TAR-Router1 = Independent Implementation Device C
- Third Interoperability Partner is satisfied by executing the test specification again using the following:
  - TAR-Router1 = Independent Implementation Device D

If your Device Under Test (DUT) Type is Router:

- DUT = TAR-Router1 for all tests.
- TAR-Host1 = Independent Implementation Device B
- TAR-Router2 = Independent Implementation Device C
- Third Interoperability Partner is satisfied by executing the test specification again using the following:
  - TAR-Host1 = Independent Implementation Device D

### SLAAC Applicable Test Check List

<table>
<thead>
<tr>
<th>Reference</th>
<th>Test Specification Id</th>
<th>Test Number</th>
<th>Device Type</th>
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<tbody>
<tr>
<td>RFC 4862</td>
<td>Core-Interoperability</td>
<td>IP6Interop.1.2 Address Autoconfiguration and Duplicate Address Detection (A)(B)(C)(D)</td>
<td>Host</td>
</tr>
<tr>
<td>RFC 4862</td>
<td>Core-Interoperability</td>
<td>IP6Interop.1.2 Address Autoconfiguration and Duplicate Address Detection (C)(D)(E)(F)</td>
<td>Router</td>
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<tr>
<td>RFC 4862</td>
<td>Core-Interoperability</td>
<td>IP6Interop.1.3 Processing Router Advertisements - Prefix Discovery (A)(B)(C)</td>
<td>Host/Router</td>
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<tr>
<td>RFC 8106</td>
<td>Core-Interoperability</td>
<td>IP6Interop.1.9 Processing Router Advertisements – DNS (A)(B)(C)(D)</td>
<td>Host</td>
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</table>
References:


The objective of this test selection sheet is to provide a reference for available test specifications that identifies tests applicable to the USGv6 Profile.