USGv6 Test Selection Tables*

IPv6 Stateless Address Autoconfiguration (SLAAC)

I2-Interoperability: IPv6 Stateless Address Autoconfiguration (SLAAC)


Configuration Option: SLAAC

Test Specification Id:
- [DHCPv6-Interoperability] IPv6 READY DHCPv6 Interoperability Test Suite, Revision 1.1.0, [editor: IPv6 Ready Logo].

Reference:

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.
- Can not change Target nodes 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

DHCPv6-Interoperability
If your Device Under Test (DUT) Type is Host:
- DUT = TAR-Client1 for all tests.
- TAR-Server1 = Independent Implementation Device B
- TAR-Relay-Agent1 = Independent Implementation Device C
- Third Interoperability Partner is satisfied by executing the test specification again using the following:
  - TAR-Server1 = Independent Implementation Device D
  - [Note: Device B, C and D may be different from Devices used for Core-Interoperability]

SLAAC Applicable Test Check List

<table>
<thead>
<tr>
<th>Reference</th>
<th>Test Specification Id</th>
<th>Test Number</th>
<th>Device Type</th>
<th>Passed</th>
</tr>
</thead>
<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>
<td></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>
<td></td>
</tr>
</tbody>
</table>

NOTE: The following tests are considered a C(M) for the SLAAC Requirements as per the USGv6-v1 Profile.

RFC 4862 Section 5.5 Creation of Global Addresses

<table>
<thead>
<tr>
<th>Reference</th>
<th>Test Specification Id</th>
<th>Test Number</th>
<th>Device Type</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<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>
<td></td>
</tr>
</tbody>
</table>

NOTE: The following tests are considered a C(S+) for the Stateless DHCP Requirements as per the USGv6-v1 Profile.

Stateless DHCP Tests

<table>
<thead>
<tr>
<th>Reference</th>
<th>Test Specification Id</th>
<th>Test Number</th>
<th>Device Type</th>
<th>Passed</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFC 3736</td>
<td>DHCPv6-Interoperability</td>
<td>DHCPInterop.3.1: Stateless DHCPv6 Configuration Options Exchange</td>
<td>Host</td>
<td></td>
</tr>
<tr>
<td>RFC 3736</td>
<td>DHCPv6-Interoperability</td>
<td>DHCPInterop.3.2: Stateless DHCPv6 Relay Agent Basic Message Exchange with DNS Configuration Options</td>
<td>Host</td>
<td></td>
</tr>
</tbody>
</table>
The objective of this test selection sheet is to provide a reference for available test specifications that identifies tests applicable to the USGv6 Profile.