

Spirent **Avalanche**

DHCP Testing

Application and Security Testing Solutions

DHCP has long been used to automatically assign IP addresses to devices connecting to Corporate and Service Provider networks. DHCP services are under constant stress with users and devices connecting and disconnecting. During busy hours this stress can overwhelm edge resources that are responsible for managing DHCP services that can disrupt user network and application access.

Applications

DHCP is a communications protocol that lets you automate the assignment of IP addresses in a network, as well as other networking parameters, such as DNS, static routes, and so on. It allows you to assign IP addresses from a central point and automatically reassign a new IP address when a computer is moved within the network, for example.

- Test the capacity and performance of DHCP services
- Find the failure point of DHCP services under busy time user modeling
- Add DHCP as the host IP for all follow on traffic and transaction within a test
- Test DHCP polices such as lease timers
- Test DHCP relay processes

Features & Benefits

- Test DHCP resolution at extreme scale, capacity and performance
- Easily add DHCP to any test with a simple command to save time and utilize this capability in your existing tests
- DHCP features are compatible with all Avalanche automation services for ongoing automated testing
- DHCP Parameters can be applied with variables to allow for a myriad of specify and corner test cases specific to your needs and environment

Requirements

- Requires Avalanche Base Layer 4-7 software
- Requires the optional DHCP software license

Technical Specifications

Provides support for DHCP stand alone or DHCP wither other Layer 4-7 traffic IPv4 Addressing Settings for:

- Discover
- Request
- Release
- GetIP
- Renew
- Set timeout values for IP lease options
- Set vendor ID (ID 60)
- DHCP Relay Support
- Support for DHCPRLYS1 and DHCPRLYS2
- Option Code Discover for: 1 Subnet mask, 3 Router (gateway IP address), 6 DNS servers, 12 Hostname, 15 Domain, 28 Broadcast address, 33 Static routes, 42 NTP server, 72 Web server, 120 SIP server
- Full suite of DHCP statistics so you can easily pinpoint performance, latency and other key metrics

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About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit:
www.spirent.com

System Requirements

- Compatible with Avalanche Commander on C1 and C100 Appliances
- Compatible with Avalanche Spirent Test Center mX2 modules
- Compatibility with Avalanche Virtual

Ordering Information

Description	Part Number
Avalanche DHCP for CF20	CMP-ASW-DHCP-CF20
Avalanche DHCP for C100	CMP-ASW-DHCP
Avalanche DHCP for Compatible Spirent TestCenter Modules (full chassis)	BPK-1216A
Avalanche DHCP for Compatible Spirent TestCenter Modules (2 Modules)	BPK-1216A-2XMOD

Available in license bundles for C1 and Avalanche Virtual.

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