



DHCP Server

A Datasheet by FusionLayer Inc.

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DHCP Server Datasheet by FusionLayer Inc., April 2021.

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FusionLayer DHCP is a virtualizable DHCP software appliance designed for traditional networking and NFV-based environments. FusionLayer DHCP automates the manual routines associated with installing and running traditional DHCP servers with support for virtually any x86-based computing environment, both native and virtual.

With standard automated software updates and DHCP security features incorporating rate limiting alongside an Intrusion Prevention System, FusionLayer DHCP has been offering unparalleled performance since 2006. Additionally, managing FusionLayer DHCP with FusionLayer's IPAM provides the optimal combination of DHCP management, performance and Total-Cost of Ownership (TCO).

Increase Level of Availability and Network Security with FusionLayer DHCP

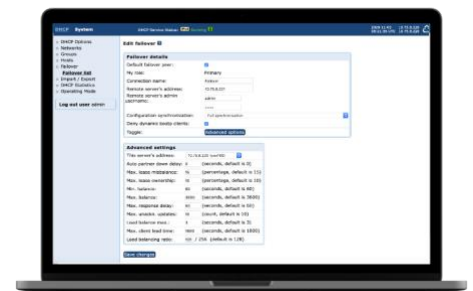
The average number of IP addresses per user is constantly on the rise. This trend caused by the rapidly increasing use of mobile clients, the introduction of IPv6 and the growing number of IP-based devices is expected to continue growing dramatically over the coming years. This calls for resilient DHCP service that is efficiently managed and can be scaled up easily to cope with increasing loads. Without such a service, workstations, WLAN-enabled laptops, VoIP clients and other mission-critical devices will not be able to perform as intended. FusionLayer DHCP introduces a new level of platform independence and simplifies the day-to-day management routines associated with running a DHCP server while increasing network security and availability

Features:

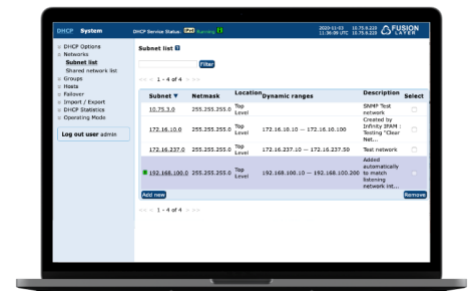
- Web-based thin client architecture
- Native SSL support-GUI-based system and user management tools
- Automated validation of DHCP configurations to eliminate downtime
- Support for centralized management via IPAM
- Distributed as software appliance with hardened Linux OS and IPS
 - Automated software maintenance process to slash OPEX
- Asymmetric DHCP failover, dynamic DNS and DHCPv4/DHCPv6
- Scales to thousands of leases per second on a suitable platform
- Runs on VMware and KVM/OpenStack as vDHCP service

Key Benefits:

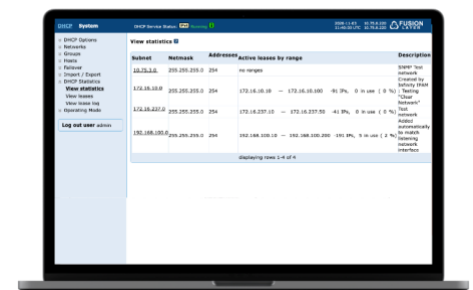
- Jump-start optimized and secure DHCP servers in just minutes
- Slash OPEX through automated software updates and centralized management
- Enhance resiliency and scalability of your DHCP service
- Monitor DHCP performance and pool allocation levels within IPAM
- Ideal solution for cloud computing initiatives with virtualized DDI
- Supports relevant network standards (RFCs, 3GPP)
- Simplify DHCP server management process with:
 - User-friendly GUI designed for system management
 - Tools and validations for advanced DHCP configurations
 - Automated log rotation
 - Built-in support for syslog forwarding
 - Easy backup process managed via GUI
 - Automated software updates & patch management process
- Convert dynamic IP allocations to static on the fly
- Provide real-time reports of allocated IP addresses



Edit Failover



Subnets List



View Statistics



FusionLayer DHCP Data Sheet

- Integrate FusionLayer DHCPs with IPAM overlay to:
 - Manage bindings between subnets and DHCP servers
 - Configure dynamic ranges for subnets managed in IPAM
 - Monitor subnet allocation levels in real-time
- Receive alerts when allocation levels are exceeded
- Monitor leases per second performance in real-time
- Manage DHCP failover pairs from a single GUI
- Migration tools available for MS DHCP and ISC DHCPD

Increased Security

- Built-in support for SSL and user authentication
- Signatures and encrypted API connections with IPAM
- Assign fixed IP addresses to clients using MAC authentication
- Built-in IPS blocking abnormal network traffic

High Availability (HA) & Scalability

- Simple backup facilitates quick disaster recovery
- Embedded SQL backend for high performance
- Deploy as HA DHCP failover clusters on native x86 hardware
- Runs on VMware and KVM/OpenStack as vDHCP service
- Monitor DHCP performance centrally from IPAM module
- Monitor IP pool allocation levels centrally from IPAM module
- Scales to thousands of leases per second on suitable platform
- Automatic configuration sync between DHCP failover clusters

Supporting Datasheets

[FusionLayer-Infinity-Datasheet-Software-Defined-IPAM.pdf](#)

[FusionLayer-DNS-Datasheet.pdf](#)

