DHCP Server

FusionLayer DHCP Server is a virtualizable DHCP software appliance designed for traditional networking and NFV-based environments. FusionLayer DHCP Server 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 Server has been offering unparalleled performance since 2006. Additionally, managing FusionLayer DHCP Server 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 Server

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 Server 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 up to hundreds of leases per second on a suitable platform
- Certified as VMware Ready and Citrix Ready

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 networking standards (DNSSEC, IPv6) out of the box
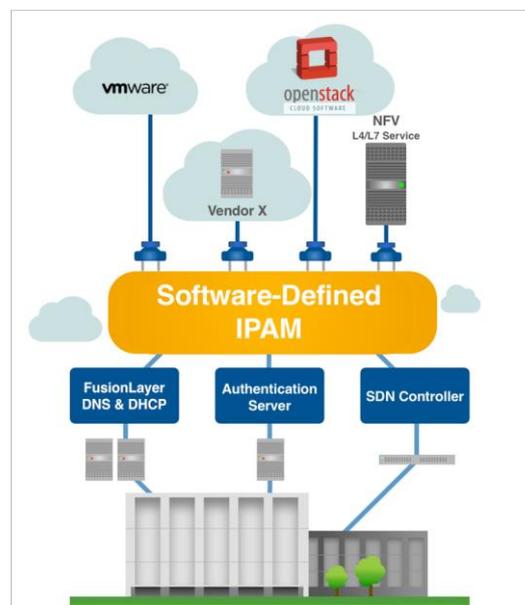
End-to-End FusionLayer DDI Solution with FusionLayer Software-Defined IPAM, DNS and DHCP
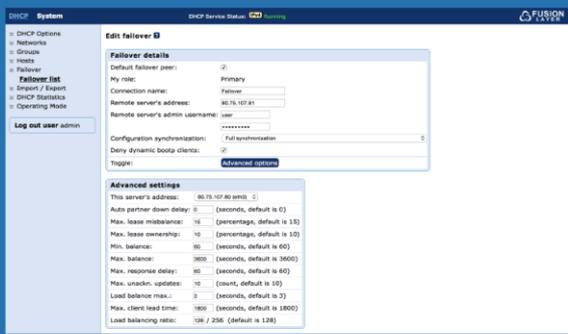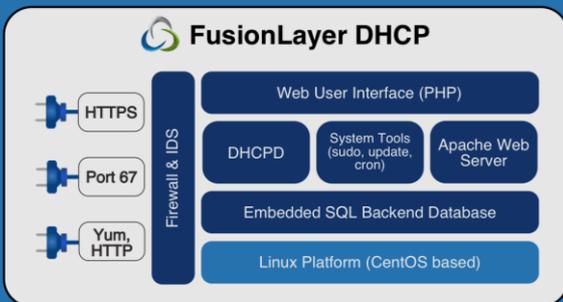
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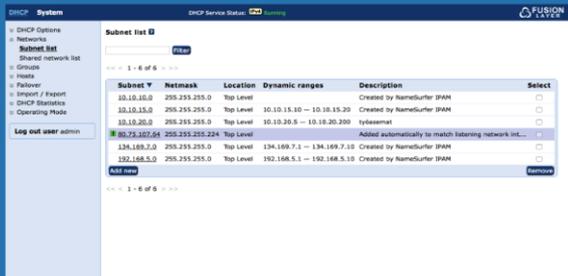
Subnets List

View Statistics

FusionLayer DHCP Architecture

Platform Support
- Citrix XenServer
- VMWare Server & ESX Server
- Any RHEL-compliant x86 server

Note: FusionLayer, Inc. continuously develops its products. For the latest information, please refer to http://fusionlayer.com.

Simplified Management

- 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
- Integrate FusionLayer DHCP Servers 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 ISCDHCPD

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
- Deploy as highly available virtual machine in VMWare or Citrix
- Monitor DHCP performance centrally from IPAM module
- Monitor IP pool allocation levels centrally from IPAM module
- Scales to hundreds of leases per second on suitable platform
- Automatic configuration sync between DHCP failover clusters

Supporting Datasheets

https://fusionlayer.com/documents/software-defined-ipam-datasheet.pdf
https://fusionlayer.com/documents/dns-server-datasheet.pdf