



FusionLayer DNS

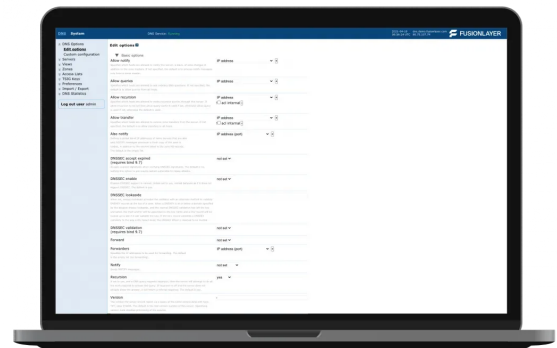
Data Sheet by FusionLayer Inc.



Secure Solution for Scalable DNS Service

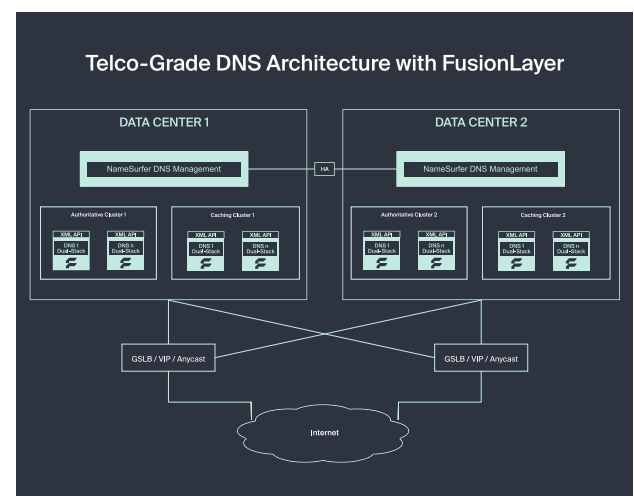
DNS is a critical network service where even short outages can disrupt applications and operations. FusionLayer DNS eliminates these risks by delivering secure, high-performance DNS services for modern networks. Used in both authoritative and recursive DNS services, it enables telecoms and enterprises to implement safe, high-performing DNS at a reasonable cost.

To align with evolving customer needs, FusionLayer DNS can be deployed as intelligent vDNS clusters that scale up and down as needed. This virtualized architecture provides the elasticity required in modern communication networks. With advanced security and streamlined management, FusionLayer ensures your DNS service stays up and running 24x7.



Key Benefits:

- Minimize OPEX through automation and centralized management.
- Deploy a secure and resilient DNS service as an intelligent service cluster.
- Implements telecom-grade DNS services at a reasonable cost
- Ideal for cloud computing and virtualized DNS service deployments





Key Features:

1. Management & Automation

- User-friendly GUI simplifies DNS administration
- Real-time analytics reporting on active hosts and query types
- Supports centralized management and service observability
- Automated validation of DNS configurations during service start
- Automated log rotation and built-in syslog forwarding (e.g., to Splunk)
- Automated software updates and patch management

2. DNS Capabilities

- Authoritative DNS server
- Recursive DNS with access control (ACL)
- DNS forwarding with access control (ACL)
- Dynamic DNS support
- DNSSEC (NSEC, NSEC3) support
- TSIG-secured transactions, NOTIFY, IXFR/AXFR
- IPv4 and IPv6 support

3. Performance & Scalability

- Available as intelligent DNS clusters for site and geo-redundancy
- Clusters can be sized to millions of QPS (per service)
- Scales up to 120,000 queries per second (per VM)
- Supports all x86-based native and virtual platforms
- Runs on KVM/OpenShift Virtualization, Microsoft Hyper-V, and VMware
- Embedded SQL backend for high performance
- Available as intelligent DNS clusters for site and geo-redundancy

4. Built-in Security Features – Secure by Design

- Hardened Linux-based appliance with built-in intrusion prevention (IPS)
- ACLs for filtering DNS queries by source
- Rate-limiting / throttling to restrict DNS traffic
- SSL-based management and user authentication
- Encrypted API connections with the management system



About FusionLayer

Managing complex corporate and telecom networks is a challenge with an enormous cost of failure. FusionLayer collates all network information into a single Network Source of Truth, accessible securely by both engineers and automation to eliminate the risk of network downtime – on-premises, at the edge, and in the public cloud. This provides our customers with reassuring real-time information, so their digitalized operations can connect 24/7/365.

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