



# **NameSurfer for DNS Management**

**Data Sheet by FusionLayer Inc.**



*FL NameSurfer™ is a DNS management solution designed as a centralized overlay for managing both authoritative and caching DNS server instances. Trusted by dozens of Tier-1 telecom operators worldwide, it safeguards critical DNS infrastructure while enabling automation of zone management processes. NameSurfer provides a highly available, single pane of glass for centralized monitoring and configuration of integrated DNS servers.*

## Minimize DNS Downtime and Eliminate Errors

DNS management is a critical aspect of overall network operations. FusionLayer's telecom customers have maintained 100% DNS service uptime for years by centralizing the management of both caching and authoritative DNS server instances, combined with automated zone management. The DNS management framework introduced by FusionLayer also provides full audit trails, role-based access control, and traceable DNS change histories—enabling customers to meet demanding regulatory and security requirement.

### Features at Glance:

- DNS management automations to reduce OPEX
- Web-based thin client architecture with native SSL support
- Granular user management functionality for delegation
- Supports centralized user authentication with audit trails
- Scales up to hundreds of thousands of zones
- Full support for IPv4, IPv6, and DNSSEC
- Network-based API with granular access privileges
- Available as hot-standby replicated server pair for HA
- Virtualization ready: VMware, KVM, Nutanix, Hyper-V, etc.

### Key Benefits:

- Slash the DNS OPEX by 90%+
- Support IPv6 and DNSSEC out of the box
- Become immune to hardware failures through virtualization
- Monitor and analyze DNS performance centrally
- Centralized configuration of integrated caching and auth DNS



## Simplified Management:

- The central dashboard provides a one-stop:
  - Viewing zones, integrated DNS servers, and server performance
  - Search tool for data
- Auto-sync of live DNS data
- Bulk data changes with ease
- Automated DNS management:
  - Zone additions & removals
  - Zone data changes
  - Reverse entries
  - Zone incrementing
  - Validation and consistency checks
  - Pre-filled data entries from templates
- Role-based Access Control (RBAC):
  - Automations
  - Flexible user privileges
  - Pre-configured templates

## Increased Security

- Built-in support for SSL and Role-Based Access Control (RBAC)
- Changes logged into audit trails (who, what, when) with undo
- Includes secure proprietary hidden primary server (non-BIND)
- Use SSH, SSL, and shared secrets in all DNS server communications
- Supports DNSSEC with NSEC3 & automated key rollovers

## High Availability & Scalability

- Automated online backup of embedded SQL database
- Deploy as a hot-standby replicated server pair
- Scales up to hundreds of thousands of zones
- Supports 100+ integrated DNS server instances (caching, auth)

## Supported Platforms:

- X86-based general purpose servers
- VMware (Fedora 8 compliant versions)
- KVM (Fedora 8 compliant versions)
- Nutanix (Fedora 8 compliant versions)
- Hyper-V (Fedora 8 compliant versions)

## Supported RFCs:

1034, 1035, 1183, 1706, 1876, 1912, 1945, 1982, 1995, 1996, 2136, 2317, 2671, 2672, 2673, 2782, 2845, 2854, 2874, 3007, 3225, 3226, 3363, 3364, 3402, 3596, 3645, 3761, 4033, 4034, 4035, 4470, 4592, 5155, 5936, 6303, 6761, 6840, 6891, 7344, 7477, 7766, 9156



## About FusionLayer

Managing complex corporate and telecom networks is a challenge where the cost of failure is enormous. FusionLayer collates all network information into a single Network Source of Truth, accessed securely by both engineers and automation to eliminate the chance of network downtime – on-premise, at the edge, and in the public cloud. This provides our customers with reassuring real-time information, so their digitalized operations can connect 24x7x365.

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