



FusionLayer Infinity

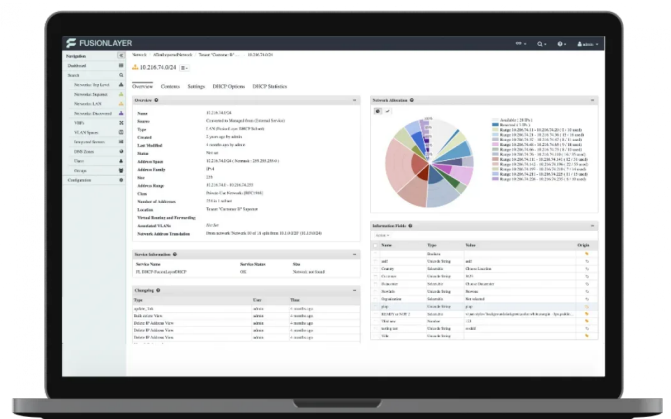
Data Sheet by FusionLayer Inc.



Tackling Complexity with Software-Defined IPAM

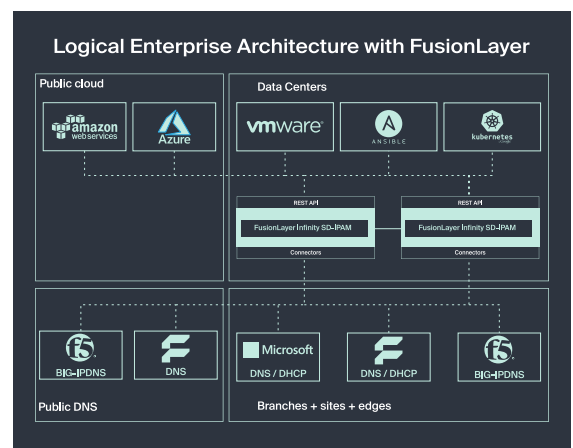
FusionLayer Infinity is a Software-Defined IP Address Management (SD-IPAM) solution that automates the provisioning and management of network resources across traditional, hybrid, edge, and telco cloud platforms. By replacing legacy IPAM systems and spreadsheets that pose security risks and hinder automation, Infinity provides a unified, scalable solution for managing networks at scale.

FusionLayer Infinity enables REST API-based assignment of networks, VLANs, VRFs, IP names, and other parameters required by orchestrators to automate processes. It also integrates natively with public cloud via their APIs, providing a secure single pane of glass to manage network assignments on-premises and in public cloud services. As the network's source of truth, Infinity reduces operational overhead and reliably scales to millions of managed objects.



Key Benefits:

- An authoritative source of truth for all network resources for AAA, and to enforce policies
- Minimize OPEX with a single pane of glass to manage IPAM, DNS, and DHCP services.
- Real-time visibility, role-based access, and audit trails into the enterprise, edge cloud, and service network segments.
- Eliminate network downtime caused by imperfect and missing data, manual errors.





Key Features:

1. Unified Network Resource Management

- Centralized management of all network blocks and subnets
- Native support for IPv4, IPv6, and dual-stack networks
- Support for overlapping networks in multitenant environments
- Automated synchronization with public and private clouds
- Optional L2/L3 discovery for traditional networks
- Support for managing VLAN spaces, VLANs, and VRFs
- Support for centralized management of integrated DNS and DHCP

2. Advanced Provisioning Engine

- REST-based assignment of prefixes, IPs, names, VLANs, VRFs, and UIDs
- Patented logic for provisioning free networks and parameters
- Off-the-shelf connectors for multiple orchestrators and controllers
- Integration with AWS, Azure, VMware, OpenStack, Red Hat, Microsoft, F5, and more

3. DNS & DHCP Automation

- REST API for zero-touch DNS change management (zones, forward & reverse names)
- REST API for automated configuration changes to integrated DHCP instances
- Centralized management and monitoring for integrated DNS and DHCP instances

4. Multitenancy & Access Control

- Full support for overlapping private address spaces (RFC 1918)
- Role-based access control (RBAC)
- Central authentication via LDAP, RADIUS, PAM, and OAuth
- Complete audit trails with undo functionality

5. High Availability & Scalability

- Embedded Redis for caching and PostgreSQL for durable storage
- Supports HA through clustered deployments
- Scales to tens of millions of managed objects



6. IPAM Tools & Productivity

- Wizards for different network types
- Bulk change tools, IP/mask calculators
- Merge/split subnetworks on demand
- Allocation and utilization reporting
- Import/export tools for migrations

Integrations and Compatibility:

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|--------------------|--|
| • Cloud Platforms: | AWS, Microsoft Azure |
| • Virtualization: | KVM/OpenShift Virtualization, VMware, Hyper-V |
| • NFV: | Red Hat OpenStack |
| • DNS: | FusionLayer DNS, F5 BIG-IP DNS, Microsoft DNS |
| • DHCP: | FusionLayer DHCP, Microsoft Windows DHCP, VMware |

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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